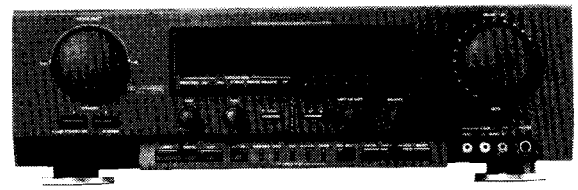
RECEIVER 70FR951

/00S/17S

Service
Service
Service



ServiceManual

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SPECIFICATIONS

General:		Norminal value	Typical value
AC voltage		:230V /00S 50Hz :220V /13S 50/60Hz :120V /17S 60Hz	:230V /00S 50Hz :220V /13S 50/60Hz :120V /17S 60Hz
Power consumption		:460W	:460W
Dimensions(WxHxD)		:435 x124x300 mm	:435 x124x300 mm
Weight		:9,4 kg	:9,4 kg
Tuner: FM section (at 75Ω)			
Tuning range		:87,5MHz to 108.0MHz	:87,5MHz to 108.0MHz
Antenna inputs		:75Ω coaxial	:75Ω coaxial
Sensitivity	mono	:2.5 µV (19.2dBf) :3% Distortion (75kHz dev.)	:1.3 µV (13.5dBf) :3% Distortion (75kHz dev.)
Selectivity		:50dB at ±400kHz bandwidth	:60dB at ±400kHz bandwidth
Frequency response	30Hz - 15kHz	:+1.0, -4.0dB	:+0.5, -2.0dB
Suppression	IF-AM	:65dB - 45dB	:70dB - 55dB
	pilot tone	:40dB	:50dB
	image frequency	:40dB	:50dB
Channel separation		:30dB 1kHz	:45dB 1kHz
Distortion T.H.D.	mono	:0.5%	:0.2%
	stereo	:1.0%	:0.4%
Signal/noise ratio	mono	:71dB	:76dB
	stereo	:63dB	:68dB
Auto-stop theshold(Muting)		:23.3 - 32.0dBf(4 -11µV)	:27.2dBf(6.3µV)
Output		:650 - 1300mV/2.0kΩ	
Tuner: AM section			
Wave ranges		:520kHz to 1710kHz	:520kHz to 1710kHz
Sensitivity	(Loop antenna)	:1000µV/m 10% Distortion	:600µV/m 10% Distortion
Selectivity	(Loop antenna)	:20dB at ±10kHz bandwidth	:30dB at ±10kHz bandwidth
Suppression	IF (Loop antenna)	:50dB	:60dB
	image frequency (Loop antenna)	:35dB	:40dB
Output	(Loop antenna)	130 -260mV	:190mV

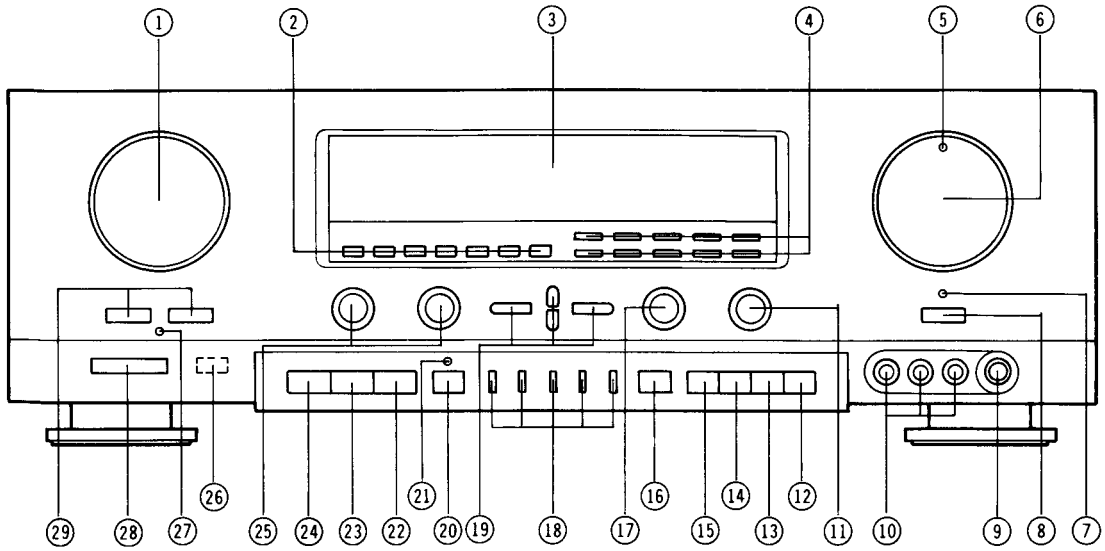
Note
- Test methode : IHF

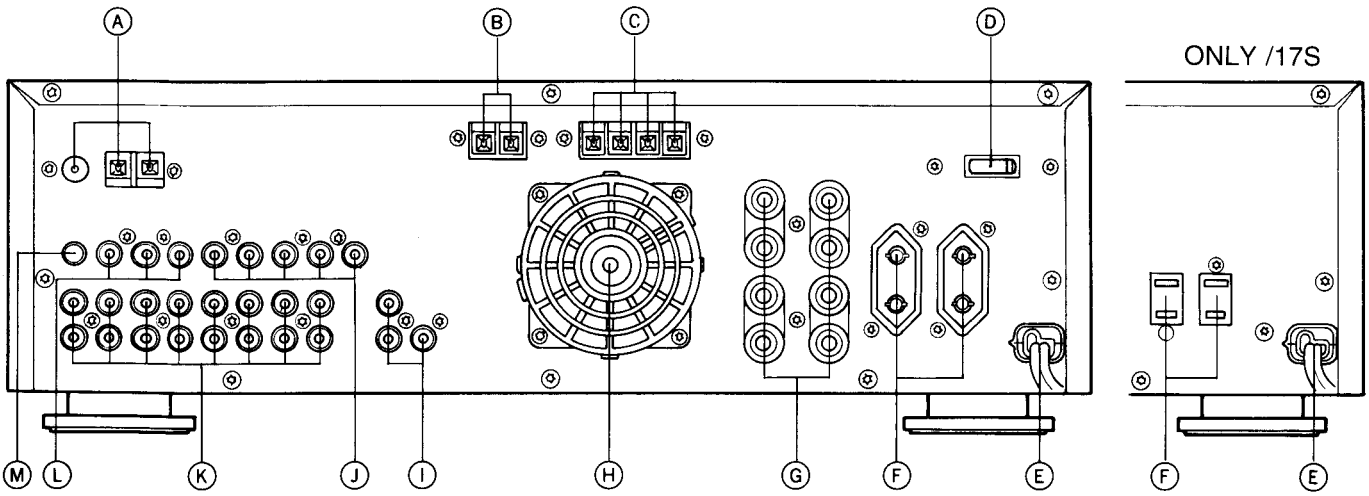
SPECIFICATIONS (Continued)

Audio	**Norminal Value**	**Typical Value**
Output power(Front/Rear/Center)	:100W(8Ω)/20W(4+4Ω)/40W(40W(8Ω)	:105W(8Ω)/22W(4+4Ω)/40W(42W(8Ω)
Distortion		
T.H.D. (Front)	:≤0.7% at 20Hz - 20kHz /00S/13S	:≤0.7% at 20Hz - 20kHz /00S/13S
	:≤0.09% at 20Hz - 20kHz /17S	:≤0.05% at 20Hz - 20kHz /17S
Intermodulation (Front)	:≤0.09% at 60/7000Hz 4:1	:≤0.03% at 60/7000Hz 4:1
Frequency characteristic		
Phono input I tone control	:from 20Hz - 20kHz ±2dB(RIAA)	:from 20Hz - 20kHz ±0.5dB(RIAA)
Linear input I neutral	:from 20Hz - 20kHz ±2dB	:from 10Hz - 30kHz ±2dB
Bass control	:at 100Hz +10dB to -10dB ±2dB	:at 100Hz +10dB to -10dB
Treble control	:at 10kHz +10dB to -10dB ±2dB	:at 10kHz +10dB to -10dB
Acoustic bass boost (80Hz/150Hz/250Hz)	:10dB/10dB/10dB ±2dB	:10dB/10dB/10dB
Signal/noise ratio weighted(A-curve)		
Phono input	:for 1W output ≥70dB	:for 1W output ≥75dB
Linear inputs	:for 1W output ≥78dB	:for 1W output ≥82dB
Channel separation	:at 1000Hz ≥40dB	:at 1000Hz ≥45dB
	:at 100Hz -10kHz ≥30dB	:at 100Hz -10kHz ≥35dB
Input sensitivity/Input impedance		
Audio		
Phono	:3.6 - 5.6mV/47kΩ	:4.5mV/47kΩ
CD/LD/TV	:220 - 360mV/20kΩ	:280mV/20kΩ
Tape/VCR	:220 - 360mV/20kΩ	:280mV/20kΩ
Video-AUX	:220 - 360mV/20kΩ	:280mV/20kΩ
Output level/Output impedance		
Tape(Audio)	:≥250mV/300 - 500Ω(Phone 5mV 1kHz input)	:≥300mV/400Ω(Phone 5mV 1kHz input)
Output level Center		
Pre-output	:160mV ±20mV	:160mV ±20mV
Video		
Frequency characteristic:	:from 10Hz - 6MHz -5dB	:from 10Hz - 10MHz -5dB
Signal/noise ratio weighted(A-curve)		
Video inputs	:70dB	:75dB
Crosstalk 3.58MHz	:35dB	:38dB
Input sensitivity		
Video inputs	:1.8 - 2.2Vpp	:2.0Vpp
Output level/Output impedance		
Video ontputs	:0.9 - 1.1Vpp/60-85Ω	:1.0Vpp/75Ω

Note
- Test methode : IHF

CONNECTIONS AND CONTROLS





1	Source selector	S437
2	Surround mode switches	S401...S407
3	FTD display	V401
4	Tuner preset switches	S408...S417
5	Volume indicator only	D651
6	Volume control	R662
7	Mute indicator	D405
8	Mute switch	S418
9	Headphone socket	J581
10	Video AUX input	J582...J584
11	Balance control	R532
12	Memory switch	S436
13	FM mode switch	S435
14	Display switch	S434
15	FM/AM switch	S433
16	Frequency direct switch	S432
17	Source direct switch	S710
18	Cursor mode switches	S423...S427
19	Cursor switches	S426...S431
20	Auto selector switch	S422
21	Auto selector indicator	D406
22	Sleep switch	S421
23	Dubbing switch	S420
24	Video switch	S419
25	Tone control	R519, R520
26	I.R receiver	Q406
27	Standby indicator	D404
28	Power switch (00S)	S321
	(/17S)	S320
29	Speaker switch	S251

A	Antenna terminal	J101
B	Center speaker terminal	J309
C	Surround speaker terminal	J310
D	Voltage selector /13S only	S222
E	Mains cord	W001
F	Mains outlet /00S	J326, J327
	/13S	J021, J022
	/17S	J320
G	Front speaker terminal	J300
H	Fan motor	910G
I	System control jacks	J553, J554
J	Video input/output	J570, J571
K	Analog audio input/output	J551, J552
L	Digital audio input/output	J592
M	Ground terminal	J053

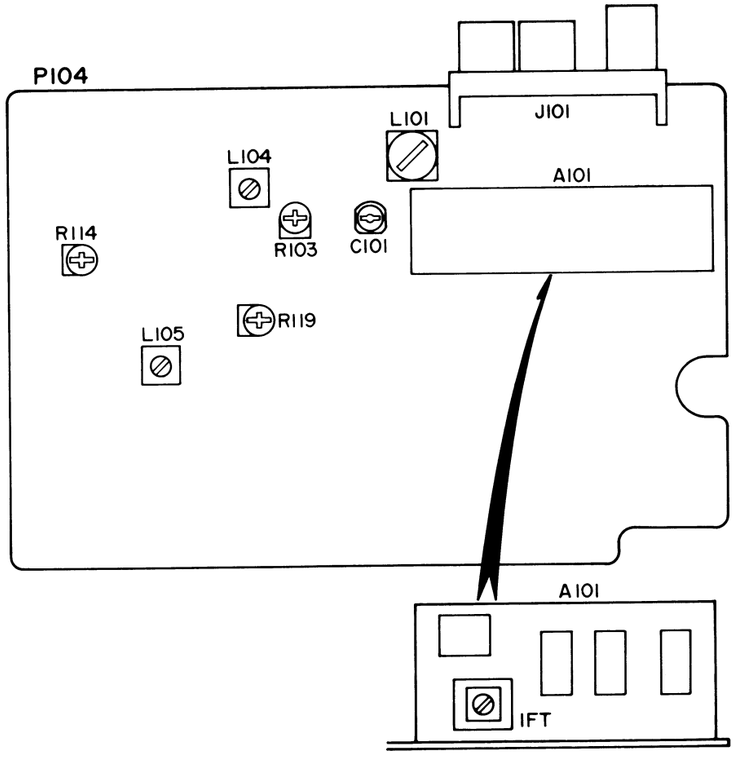
AM-RF

FUNCTION... WAVE RANGE SWITCH	SIGNAL	TO	DISPLAY TUNE IN	DETUNE	ADJUST	OSCILLOSCOPE	INDICATOR
AM (S433)	1400 kHz	Loop Ant.	▭		L101		J551 (Tape out) Output Max.
	600 kHz				C101		

AM Auto Stop

AM (S433)	1000 kHz Mod. 400 Hz 30% Output 1000 µV/m	Loop Ant.	▭		R103		J551 (Tape out) [2]

Tuner Adjustment Positions



µ-Processor Data

Q401: TMP47C1670AN H054

Pin Nbr.	Pin Name	I/O	Act.	Function
1	VKK	–	–	–35V
2	S0	O	H	FTD Segment Drive
3	S1	O	H	
4	S2	O	H	
5	S3	O	H	
6	S4	O	H	
7	S5	O	H	
8	S6	O	H	
9	S7	O	H	
10	S8	O	H	
11	S9	O	H	
12	S10	O	H	
13	S11	O	H	
14	K0	I	H	Key Input
15	K1	I	H	
16	K2	I	H	
17	K3	I	H	
18	TEST	I	–	GND
19	OSC	I	–	Clock Input
20	OSC	O	–	Clock Output
21	RESET	I	L	Reset
22	HOLD	I	H	Elect. Failure Sensing Signal Input
23	CE4	O	H	Strobe Signal Output
24	PULSE UP	I	L	Function Selector Pulse Input
25	PULSE DOWN	I	L	
26	CE3	O	H	Latch Signal Output
27	CE2	O	L	"REQ" Signal Output
28	CE1	O	H	Chip Enable Signal Output
29	CLK OUT	O	H	Serial Data Control Clock Output
30	DATA OUT1	O	H	Data Output
31	DATA OUT2	O	H	Data Signal Output
32	VSS	–	–	GND

Pin Nbr.	Pin Name	I/O	Act.	Function
33	N.C.	–	–	Not Used
34	AUTO SELECT IND	O	L	Auto Select Mode Indicator Out
35	MUTE	O	L	Audio Mute Output
36	STANDBY IND	O	L	Standby Indicator Output
37	DATA IN	I	H	Serial Data Input
38	W.T. OUT	O	L	Watchdog Reset Signal Output
39	DIGITAL IND	I	L	Detecting Digital Signal Out/In
40	3/4 CH	O	H	3CH/4CH Switching Signal Output
41	RC-5 IN	I	L	RC-5 Bus Signal Input
42	SD IN	I	L	Band Detecting Signal Input
43	EASY LINK IN	I	L	Easy Link Bus Signal Input
44	EASY LINK OUT	O	L	Easy Link Bus Signal Output
45	SPK RELAY	O	L	Speaker Relay Control
46	MUTE	O	L	Front Channel Mute Signal Out
47	V-AUX	O	L	FTD Segment Drive
48	G11	O	H	FTD Grid Drive
49	G10	O	H	
50	G9	O	H	
51	G8	O	H	
52	G7	O	H	
53	G6	O	H	
54	G5	O	H	
55	G4	O	H	
56	G3	O	H	
57	G2	O	H	
58	G1	O	H	
59	G0	O	H	
60	S15	O	H	FTD Segment Drive
61	S14	O	H	
62	S13	O	H	
63	S12	O	H	
64	VDD	–	–	+5V

▲	Carbon film 0.125 W or 0.2 W	70°C	5%
▫	Carbon film 0.25 W or 0.33 W	70°C	5%
■	Metal film 0.25 W or 0.33 W	70°C	5%
●	Carbon film 0.5 W	70°C	5%
▨	Carbon film 0.67 W	70°C	5%
◪	Carbon film 1 W or 1.15 W	70°C	5%

(C) Chip component

△△*	Ceramic plate Tuning ⩽ 120 pF NP.0	2%
	Others	–20/+80%
●●*	Polyester flat foil	10%
▫*	Metalized polyester flat film	10%
○▫*	Polyester flat foil small size (Mylar)	10%
○△*	Polysterene film/foil	1%
■▲*	Tubular ceramic	
○*	Miniature single	
○○*	Subminiature tantalum	± 20%

*a = 2.5 V
b = 3.15 V or 4 V
c = 6.3 V
d = 10 V
e = 16 V
f = 25 V
g = 40 V
h = 63 V
j = 100 V
l = 125 V
m = 150 V
n = 160 V
q = 200 V
r = 250 V
s = 300 V
t = 350 V
u = 400 V
v = 500 V
w = 630 V
x = 1000 V
A = 1.6 V
B = 6 V
C = 12 V
D = 15 V
E = 20 V
F = 35 V
G = 50 V
H = 75 V
I = 80 V

Service Test Program

To enter the service test program, press the POWER switch while pressing and holding the MUTE and MEMORY switches simultaneously. The display will show the characters ".SERVICE.." for 2 seconds, then show "TUNER-OK" or "TUNER-NG" for 2 seconds.

TUNER-OK: The data communication between the PLL IC (Q150) and microprocessor (Q401) is normal.

TUNER-NG: The data communication between the PLL IC (Q150) and microprocessor (Q401) is abnormal. Check the data line between line.

In case of "TUNER-NG", the characters blink at a cycle of 1Hz. The blinking can be stopped with the FM/AM switch. Other switches are invalid during blinking.

After the "TUNER-OK" or "TUNER-NG" display, normal operation starts. However, the source indicator on the display keeps on blinking at 1Hz while the unit is in the service test program.

- Tracking point memory mode

When the MUTE and MEMORY switches are pressed simultaneously while the unit is in the service test program, the tracking point frequencies as shown below are written in the memory.

- Tracking point frequencies

Pre Set Nbr.	1 - 3	4	5	6	7	8	9	10 - 20	21 - 31
/00S/01S /13S	87.5	90.0	98.0	106.0	603	999	1404	87.5	522
BK01					600	1000	1400	87.5	530
	FM (MHz)				AM (KHz)			FM (MHz)	AM (KHz)

In the service test program, the RAM can be cleared by pressing the POWER switch to OFF while also pressing and holding the 0/+- and MEMORY switches simultaneously. To exit the service test program, press the Power switch to turn the unit OFF.

ADJUSTMENTS

Audio Section

Idling Current

FUNCTION.. SWITCH	SIGNAL	TO	VOLUME	ADJUST	OSCILLOSCOPE	D.C. METER INDICATOR
Power switch OFF (S321: /00S/01S) (S320: /13S, BK01)				R263, R264 Preset in full C.C.W. position		
Power switch ON (S321: /00S/01S) (S320: /13S, BK01)			Min.	Lch R263		Lch TP1 (+), TP3 (–) (Both side of R271) DC 7.2 mV (20 mA)
				Rch R264		Rch TP2 (+), TP4 (–) (Both side of R272) DC 7.2 mV (20 mA)

C.C.W.: Counterclockwise

Notes:

1. After the power has been turned on, wait 5 minutes, and then adjust R263 & R264 to obtain the reading of 7.2mV.
2. If the temperature of the heat-sink is higher than the room temperature, switch the power OFF, and leave the unit until the heat-sink falls to the room temperature before proceeding to the Idling Current Adjustment.

Tuner Section

- Inner adjustment of the FM front end pack (A101) of this unit is difficult. (IF, RF, OSC)
- Inductance of the AM OSC coil (L102) is preset. Therefore, please do not turn the core of this coil.
- Refer to "Tracking point memory mode" in the Service test program.

Notes:

1 Clear the output waveform on J551 by turning R114, then adjust R114 slightly so that the waveform just reappears.

2 Adjust R103 so that the "TUNED" indicator of the FDT (Flouresent Display Tube) lights up.

FM-Distortion

FUNCTION... WAVE RANGE SWITCH	SIGNAL	TO	DISPLAY TUNE IN	DETUNE	ADJUST	OSCILLOSCOPE	INDICATOR
FM (S433)	98 MHz Mod. 1 kHz Δf 75 kHz (Mono) Output 500 μV (65 dBf)	J101			L105		J551 (Tape out) Distortion Min.
	98 MHz Mod. 1 kHz Δf L+R 67.5 kHz Pilot 6.75 kHz Output 500 μV (65 dBf)				A101-IFT (Front end IFT)		

Stereo Separation

FM (S433)	98 MHz Mod. 1 kHz Δf L+R 67.5 kHz Pilot 6.75 kHz Output 500 μV (65 dBf)	J101			R119		J551 (Tape out) Separation Max.

Muting Level

FM (S433) FM mode switch (S435) (Mono indicator OFF)	98 MHz Mod. 1 kHz Δf 75 kHz Output 6.3 μV (27.2 dBf)	J101			R114		J551 (Tape out) 1

AM-IF

AM (S433)	1000 kHz (BK01) Mod. 400 Hz 30% Low Output (300 μV/m)	Loop Ant.			L104		J551 (Tape out) Output Max.

| | | |

| | | |

FUNCTION AND MAIN AMP SCHEMATIC DIAGRAM

C201 C2 C202 D2 C203 D2 C204 D2 C205 E2 C206 F2 C207 F2 C208 F2 C209 F6 C210 G2 C282 B15 C285 B15 C286 B15 C287 B15 C338 E18 C567 H2 F321 F18 F322 E18 J300 B16 J311 B14 J312 B13 J326 E18 J327 E18 J328 E18 J329 E18 J330 F18 J331 F18 J332 E17 J332 F18 J333 F19 J334 F19 J564 C14 S310 B13 S321 F18

C251 B10 C252 E10 C253 F10 C254 E10 C255 D11 C257 B6 C258 C6 C259 B6 C260 D6 C261 A7 C262 C7 C263 A6 C264 C6 C265 B6 C266 D6 C267 B7 C268 D7 C269 B8 C270 C8 C271 B10 C272 D9 C273 B6 C274 D6 C320 G15 C321 H14 C322 H14 C323 G15 C324 G14 C325 G14 C326 F14 C327 G13 C328 F12 C329 G11 C330 H11 C331 G10 C332 G10 C333 G10 C334 H11 C335 H12 C336 B19 C336 G11 C337 G18 C338 E18 C339 F14 C564 E1 C565 E1 C566 G1 C601 B2 C602 C2 C603 B2 C604 B2 C605 A2 C606 C2 C609 A3 C610 C3 C611 A3 C612 C3 C613 B3 C614 B3 C615 B4 C616 C4 C617 B3 C618 B3 C619 C1 D251 B9 D252 D9 D253 C11 D254 F10 D291 E14 D294 E13 D295 E16 D296 E16 D320 H14 D321 G14 D322 G14 J001 B18 J250 E15 D325 H11 D326 F14 F001 B18 F320 H17 F321 E18 F323 G15 F324 G15 J320 G18 J321 H17 J322 H17 J323 H17 J290 F15 J302 C15 J324 H18 J325 G18 J326 E18 J327 E18 J330 E18 J331 E18 J332 B19 J332 D18 J333 C19 J332 E18 J333 C20 J333 E19 J334 C20 J334 E19 J335 H18 J336 G15 J337 G15 J338 F15 J339 F15 J551 B1 J552 E1 J554 H15 J555 H4 J557 H11 J558 H9 J560 A5 J561 F15 J563 F15 J565 B12 J568 H3 J581 A13 J582 H1 J583 H1 J584 H1 L001 D17 L001 F16 L251 B11 L252 C10 L253 A10 Q251 B7 Q252 C7 Q253 B8 Q254 D8 Q255 A9 Q256 C9 Q257 B9 Q258 E9 Q259 A9 Q260 C9 Q261 B10 Q262 D10 Q290 E13 Q291 E14 Q292 E14 Q293 E15 Q320 G11 Q321 G10 Q322 C3 Q323 B8 Q326 D4 Q327 D8 Q328 F4 Q329 F4 Q330 C6 Q331 C6 Q332 C6 Q333 C6 Q334 C6 Q335 C6 Q336 C6 Q337 C6 Q338 C6 Q339 C6 Q340 C6 Q341 C6 Q342 C6 Q343 C6 Q344 C6 Q345 C6 Q346 C6 Q347 C6 Q348 C6 Q349 C6 Q350 C6 Q351 C6 Q352 C6 Q353 C6 Q354 C6 Q355 C6 Q356 C6 Q357 C6 Q358 C6 Q359 C6 Q360 C6 Q361 C6 Q362 C6 Q363 C6 Q364 C6 Q365 C6 Q366 C6 Q367 C6 Q368 C6 Q369 C6 Q370 C6 Q371 C6 Q372 C6 Q373 C6 Q374 C6 Q375 C6 Q376 C6 Q377 C6 Q378 C6 Q379 C6 Q380 C6 Q381 C6 Q382 C6 Q383 C6 Q384 C6 Q385 C6 Q386 C6 Q387 C6 Q388 C6 Q389 C6 Q390 C6 Q391 C6 Q392 C6 Q393 C6 Q394 C6 Q395 C6 Q396 C6 Q397 C6 Q398 C6 Q399 C6 Q400 C6 Q401 C6 Q402 C6 Q403 C6 Q404 C6 Q405 C6 Q406 C6 Q407 C6 Q408 C6 Q409 C6 Q410 C6 Q411 C6 Q412 C6 Q413 C6 Q414 C6 Q415 C6 Q416 C6 Q417 C6 Q418 C6 Q419 C6 Q420 C6 Q421 C6 Q422 C6 Q423 C6 Q424 C6 Q425 C6 Q426 C6 Q427 C6 Q428 C6 Q429 C6 Q430 C6 Q431 C6 Q432 C6 Q433 C6 Q434 C6 Q435 C6 Q436 C6 Q437 C6 Q438 C6 Q439 C6 Q440 C6 Q441 C6 Q442 C6 Q443 C6 Q444 C6 Q445 C6 Q446 C6 Q447 C6 Q448 C6 Q449 C6 Q450 C6 Q451 C6 Q452 C6 Q453 C6 Q454 C6 Q455 C6 Q456 C6 Q457 C6 Q458 C6 Q459 C6 Q460 C6 Q461 C6 Q462 C6 Q463 C6 Q464 C6 Q465 C6 Q466 C6 Q467 C6 Q468 C6 Q469 C6 Q470 C6 Q471 C6 Q472 C6 Q473 C6 Q474 C6 Q475 C6 Q476 C6 Q477 C6 Q478 C6 Q479 C6 Q480 C6 Q481 C6 Q482 C6 Q483 C6 Q484 C6 Q485 C6 Q486 C6 Q487 C6 Q488 C6 Q489 C6 Q490 C6 Q491 C6 Q492 C6 Q493 C6 Q494 C6 Q495 C6 Q496 C6 Q497 C6 Q498 C6 Q499 C6 Q500 C6 Q501 C6 Q502 C6 Q503 C6 Q504 C6 Q505 C6 Q506 C6 Q507 C6 Q508 C6 Q509 C6 Q510 C6 Q511 C6 Q512 C6 Q513 C6 Q514 C6 Q515 C6 Q516 C6 Q517 C6 Q518 C6 Q519 C6 Q520 C6 Q521 C6 Q522 C6 Q523 C6 Q524 C6 Q525 C6 Q526 C6 Q527 C6 Q528 C6 Q529 C6 Q530 C6 Q531 C6 Q532 C6 Q533 C6 Q534 C6 Q535 C6 Q536 C6 Q537 C6 Q538 C6 Q539 C6 Q540 C6 Q541 C6 Q542 C6 Q543 C6 Q544 C6 Q545 C6 Q546 C6 Q547 C6 Q548 C6 Q549 C6 Q550 C6 Q551 C6 Q552 C6 Q553 C6 Q554 C6 Q555 C6 Q556 C6 Q557 C6 Q558 C6 Q559 C6 Q560 C6 Q561 C6 Q562 C6 Q563 C6 Q564 C6 Q565 C6 Q566 C6 Q567 C6 Q568 C6 Q569 C6 Q570 C6 Q571 C6 Q572 C6 Q573 C6 Q574 C6 Q575 C6 Q576 C6 Q577 C6 Q578 C6 Q579 C6 Q580 C6 Q581 C6 Q582 C6 Q583 C6 Q584 C6 Q585 C6 Q586 C6 Q587 C6 Q588 C6 Q589 C6 Q590 C6 Q591 C6 Q592 C6 Q593 C6 Q594 C6 Q595 C6 Q596 C6 Q597 C6 Q598 C6 Q599 C6 Q600 C6 Q601 B2 Q602 C2 Q603 C2 Q604 C2 Q605 C2 Q606 C2 Q607 C2 Q608 C2 Q609 C2 Q610 C2 Q611 C2 Q612 C2 Q613 C2 Q614 C2 Q615 C2 Q616 C2 Q617 C2 Q618 C2 Q619 C2 Q620 C2 Q621 C2 Q622 C2 Q623 C2 Q624 C2 Q625 C2 Q626 C2 Q627 C2 Q628 C2 Q629 C2 Q630 C2 Q631 C2 Q632 C2 Q633 C2 Q634 C2 Q635 C2 Q636 C2 Q637 C2 Q638 C2 Q639 C2 Q640 C2 Q641 C2 Q642 C2 Q643 C2 Q644 C2 Q645 C2 Q646 C2 Q647 C2 Q648 C2 Q649 C2 Q650 C2 Q651 C2 Q652 C2 Q653 C2 Q654 C2 Q655 C2 Q656 C2 Q657 C2 Q658 C2 Q659 C2 Q660 C2 Q661 C2 Q662 C2 Q663 C2 Q664 C2 Q665 C2 Q666 C2 Q667 C2 Q668 C2 Q669 C2 Q670 C2 Q671 C2 Q672 C2 Q673 C2 Q674 C2 Q675 C2 Q676 C2 Q677 C2 Q678 C2 Q679 C2 Q680 C2 Q681 C2 Q682 C2 Q683 C2 Q684 C2 Q685 C2 Q686 C2 Q687 C2 Q688 C2 Q689 C2 Q690 C2 Q691 C2 Q692 C2 Q693 C2 Q694 C2 Q695 C2 Q696 C2 Q697 C2 Q698 C2 Q699 C2 Q700 C2 Q701 C2 Q702 C2 Q703 C2 Q704 C2 Q705 C2 Q706 C2 Q707 C2 Q708 C2 Q709 C2 Q710 C2 Q711 C2 Q712 C2 Q713 C2 Q714 C2 Q715 C2 Q716 C2 Q717 C2 Q718 C2 Q719 C2 Q720 C2 Q721 C2 Q722 C2 Q723 C2 Q724 C2 Q725 C2 Q726 C2 Q727 C2 Q728 C2 Q729 C2 Q730 C2 Q731 C2 Q732 C2 Q733 C2 Q734 C2 Q735 C2 Q736 C2 Q737 C2 Q738 C2 Q739 C2 Q740 C2 Q741 C2 Q742 C2 Q743 C2 Q744 C2 Q745 C2 Q746 C2 Q747 C2 Q748 C2 Q749 C2 Q750 C2 Q751 C2 Q752 C2 Q753 C2 Q754 C2 Q755 C2 Q756 C2 Q757 C2 Q758 C2 Q759 C2 Q760 C2 Q761 C2 Q762 C2 Q763 C2 Q764 C2 Q765 C2 Q766 C2 Q767 C2 Q768 C2 Q769 C2 Q770 C2 Q771 C2 Q772 C2 Q773 C2 Q774 C2 Q775 C2 Q776 C2 Q777 C2 Q778 C2 Q779 C2 Q780 C2 Q781 C2 Q782 C2 Q783 C2 Q784 C2 Q785 C2 Q786 C2 Q787 C2 Q788 C2 Q789 C2 Q790 C2 Q791 C2 Q792 C2 Q793 C2 Q794 C2 Q795 C2 Q796 C2 Q797 C2 Q798 C2 Q799 C2 Q800 C2 Q801 C2 Q802 C2 Q803 C2 Q804 C2 Q805 C2 Q806 C2 Q807 C2 Q808 C2 Q809 C2 Q810 C2 Q811 C2 Q812 C2 Q813 C2 Q814 C2 Q815 C2 Q816 C2 Q817 C2 Q818 C2 Q819 C2 Q820 C2 Q821 C2 Q822 C2 Q823 C2 Q824 C2 Q825 C2 Q826 C2 Q827 C2 Q828 C2 Q829 C2 Q830 C2 Q831 C2 Q832 C2 Q833 C2 Q834 C2 Q835 C2 Q836 C2 Q837 C2 Q838 C2 Q839 C2 Q840 C2 Q841 C2 Q842 C2 Q843 C2 Q844 C2 Q845 C2 Q846 C2 Q847 C2 Q848 C2 Q849 C2 Q850 C2 Q851 C2 Q852 C2 Q853 C2 Q854 C2 Q855 C2 Q856 C2 Q857 C2 Q858 C2 Q859 C2 Q860 C2 Q861 C2 Q862 C2 Q863 C2 Q864 C2 Q865 C2 Q866 C2 Q867 C2 Q868 C2 Q869 C2 Q870 C2 Q871 C2 Q872 C2 Q873 C2 Q874 C2 Q875 C2 Q876 C2 Q877 C2 Q878 C2 Q879 C2 Q880 C2 Q881 C2 Q882 C2 Q883 C2 Q884 C2 Q885 C2 Q886 C2 Q887 C2 Q888 C2 Q889 C2 Q890 C2 Q891 C2 Q892 C2 Q893 C2 Q894 C2 Q895 C2 Q896 C2 Q897 C2 Q898 C2 Q899 C2 Q900 C2 Q901 C2 Q902 C2 Q903 C2 Q904 C2 Q905 C2 Q906 C2 Q907 C2 Q908 C2 Q909 C2 Q910 C2 Q911 C2 Q912 C2 Q913 C2 Q914 C2 Q915 C2 Q916 C2 Q917 C2 Q918 C2 Q919 C2 Q920 C2 Q921 C2 Q922 C2 Q923 C2 Q924 C2 Q925 C2 Q926 C2 Q927 C2 Q928 C2 Q929 C2 Q930 C2 Q931 C2 Q932 C2 Q933 C2 Q934 C2 Q935 C2 Q936 C2 Q937 C2 Q938 C2 Q939 C2 Q940 C2 Q941 C2 Q942 C2 Q943 C2 Q944 C2 Q945 C2 Q946 C2 Q947 C2 Q948 C2 Q949 C2 Q950 C2 Q951 C2 Q952 C2 Q953 C2 Q954 C2 Q955 C2 Q956 C2 Q957 C2 Q958 C2 Q959 C2 Q960 C2 Q961 C2 Q962 C2 Q963 C2 Q964 C2 Q965 C2 Q966 C2 Q967 C2 Q968 C2 Q969 C2 Q970 C2 Q971 C2 Q972 C2 Q973 C2 Q974 C2 Q975 C2 Q976 C2 Q977 C2 Q978 C2 Q979 C2 Q980 C2 Q981 C2 Q982 C2 Q983 C2 Q984 C2 Q985 C2 Q986 C2 Q987 C2 Q988 C2 Q989 C2 Q990 C2 Q991 C2 Q992 C2 Q993 C2 Q994 C2 Q995 C2 Q996 C2 Q997 C2 Q998 C2 Q999 C2

Gleichspannung am Ausgang wenn ein R defekt

PV04 FUNCTION AND MAIN AMP C.B.A.

PT34-2/2

PT84 SPEAKER SW C.B.A.

PT14 FRONT SP TERMINAL

PT34-1/2

FRONT AV TERMINAL C.B.A.

FROM PL14 (J573)

FROM PL04 (J572)

FROM P104 (J102)

To P604 (J625)

FROM PU04 (W401)

To PE04 (J501)

C262 C7 C263 A6 C264 C6 C265 B6 C266 D6 C267 B7 C268 D7 C269 B8 C270 C8 C271 B10
C272 D9 C273 B6 C274 D6 C320 G15 C321 H14 C322 H14 C323 G15 C324 G14
C325 G14 C326 F14 C327 G13 C328 F12 C329 G11 C330 H11 C331 G10 C332 G10 C333 G10 C334 H11
C335 H12 C336 B19 C337 G18 C338 E18 C339 F14 C564 E1 C565 E1 C566 G1
C601 B2 C602 C2 C603 B2 C604 B2 C605 A2 C606 C2 C609 A3 C610 C3 C611 A3 C612 C3
C613 B3 C614 B3 C615 B4 C616 C4 C617 B3 C618 B3 C619 C1 D251 B9 D252 D9 D253 C11
D254 F10 D291 E14 D294 E13 D296 E16 D320 H14 D321 G14 D322 G14 D323 F13 J250 E15
D325 H11 D326 F14 F001 B18 F320 H17 F321 E18 F323 G15 J001 B18 J053 A1 J250 E15
J290 F15 J302 C15
J324 H18 J325 G18 J326 E18 J327 E18 J328 E19 J329 E19 J330 E18 J331 E18 J332 B19 J333 G15 J338 F15
J332 C19 J333 C20 J334 C20 J334 E19 J555 H4 J557 H11 J556 H9 J560 A5 J561 F15
J339 F15 J551 B1 J552 E1 J553 H15 J554 H15 J583 H1 J584 H1
J563 F15 J565 B12 J568 H3 J581 A13 J582 H1 J583 H1
L001 D17 L001 F16 L251 B11 L252 C10 L253 A10 Q251 B7 Q252 C7 Q253 B8 Q254 D8 Q255 A9
Q256 C9 Q257 B9 Q258 E9 Q259 A9 Q260 C9 Q261 B10 Q262 D10 Q290 E13 Q291 E14 Q292 E14
Q293 E15 Q320 G11 Q321 G10 Q322 H11 Q323 F11 Q551 D6 Q551 D4 Q551 E8 Q552 F4 Q552 F6
Q552 G8 Q602 C3 R251 B5 R252 C5 R253 B6 R254 C6 R255 A6 R256 C6 R257 B7
R258 D7 R259 B6 R260 D6 R261 B7 R262 D7 R263 B7 R264 D7 R265 B7 R266 D7 R267 A8
R268 C8 R269 B8 R270 D8 R271 A9 R272 C9 R273 A9 R274 C9 R275 B9 R276 D9 R277 B9
R278 C9 R279 B10 R280 C10 R281 B10 R282 B10 R283 D9 R284 C10 R285 B12 R287 A7
R288 C7 R289 A7 R290 C7 R291 D10 R292 D11 R294 B12 R295 B11 R296 C10 R297 F13
R298 E10 R299 F10 R300 E10 R318 D10 R319 E9 R320 F13 R321 G12 R322 G13 R326 G11
R327 F13 R329 F13 R330 E12 R331 G12 R332 G12 R334 D10 R340 E9
R565 F9 R568 G9 R581 B2 R582 C2 R583 B3 R584 C3 R585 B4 R586 C4 R587 B3 R588 C3
R589 C2 R590 C2 R591 C4 R592 B4 R593 A2 R594 B4 R595 C2 R596 C2 R597 C4 R598 C4
R599 B3 R600 B2 R601 B2 R602 C2 R603 B2 R604 B2 R605 A2 R606 C2 R607 B2 R608 C2
R609 A3 R610 C3 R611 A3 R612 C3 R613 B4 R614 C4 R615 B4 R616 C4 R617 B3 R618 B3
R619 G2 R620 G2 R621 G3 R622 G5
S320 H18 S321 E18

Gleichspannung am Ausgang wenn ein R defekt

PT34-2/2
J581-2/2
HEADPHONE
J580

PT84 SPEAKER SW C.B.A.

PT14
FRONT SPEAKER
TERMINAL C.B.A.

*only /00S/01S/13S

SYMBOL LEDGEND NOTE:

FOR AN EXPLANATION OF COMPONENT SYMBOLS REFER TO THE COMPONENT SYMBOL CHART ON THE LOWER HALF OF PAGE 10. ALSO NOTE THE FOLLOWING WITH REGARD TO THE SCHEMATICS SHOWN HERE.

- INDICATES SIGNAL GROUND.
- INDICATES CHASSIS GROUND.
- INDICATES AN ELECTROLYTIC CAPACITOR. THE SAME AS:
- INDICATES AN .125W OR .2 W RESISTOR. THE SAME AS: 47k 1/8W
- INDICATES A VARIABLE RESISTOR SUCH AS: 47k 1/8W

P814
POWER SWITCH C.B.A.

P804
POWER SWITCH C.B.A.

/00S/13S only
/17S only

Q551-2/3 LC7821
Q552-2/3 LC7823
Q552-3/3 LC7823
LEVEL SHIFTER
LATCH
SHIFT REGISTER
CONTROL

POWER ON/OFF DETECT CIRCUIT
OVER CURRENT DETECT CIRCUIT
DC VOLTAGE DETECT CIRCUIT
MUTING CIRCUIT
CONSTANT VOLTAGE CIRCUIT
OR CIRCUIT
SCHMIDT CIRCUIT
RELAY DRIVE CIRCUIT
DISCHARGE CIRCUIT
SUBSTRATE

FROM P104 (J102)
To P604 (J625)
FROM PU04 (W401)
To P714 (J307)
POWER TRANSFORMER L001
EASY LINK
RC-5

PCS 69 410

SURROUND MODE AND DECODER SCHEMATIC DIAGRAM

C351 A2 C352 C2 C357 C4 C358 C4 C359 B7 C360 C4 C361 B7 C362 B8 C363 B6 C364 B6
C365 B4 C366 B5 C367 A5 C369 B5 C370 A6 C371 A6 C373 B6 C374 A6 C375 A7 C376 A7
C377 A8 C378 A9 C379 B8 C381 A4 C382 C10 C383 A12 C384 C12 C625 G3 C626 G3 C627 E6
C628 E5 C629 E5 C630 E5 C631 F4 C632 F4 C633 F4 C634 F4 C635 G3 C636 G4 C637 G4
C638 H4 C639 H5 C640 H4 C641 H5 C642 H6 C643 H8 C644 H6 C646 G8 C647 G8
C649 D11 C650 F8 C651 F7 C652 F8 C653 E8 C654 E8 C655 F8 C656 E7 C657 E6 C658 E6
C659 E6 C660 E6 C661 F11 C662 F11 C663 F13 C664 H14 C665 G16 C666 F15 C667 F15 C668 F15
C669 F15 C670 F15 C671 F15 C673 F14 C674 F14 C675 F13 C676 G13 C677 G13 C678 F13 C679 G4
C680 F9 C681 H11 C682 H12 C683 F19 C751 B14 C752 B13 C753 B17 C754 C14 C755 B17 C756 B18
C757 C17 C758 C18 D625 H7 D626 E19 D651 H20 J308 A20 J502 G2 J558 B1 J625 A1 J626 C20
J629 E20 J630 G19 Q351 A2 Q352 B4 Q353 B6 Q354 A4 Q355 A5
Q355 A9 Q356 A9 Q356 B9 Q356 C4 Q356 C5 Q356 C6 Q356 C13 Q625 E4 Q625 F9 Q626 G13
Q627 H9 Q628 G11 Q629 F11 Q630 E18 Q751 B16 Q752 C14 Q752 C17 Q753 B17 Q754 B15 Q351 B2
R352 C2 R359 B3 R360 B3 R361 C3 R362 C4 R363 B7 R365 B8 R366 B6 R367 A7 R368 B8 R369 A8 R371 B5 R372 A5 R373 A5 R374 A5 R376 B6 R377 A3
R378 B3 R379 A4 R380 B4 R381 B5 R382 A5 R383 A5 R384 A5 R385 A6 R386 A6 R387 A6 R388 A8 R389 A8 R390 A8 R391 A8 R392 B7 R393 B7 R394 A9 R395 A9 R396 A12 R397 A6
R398 A8 R531 B2 R625 F2 R626 F2 R627 F2 R628 F2 R629 F2 R630 F2 R631 F2 R632 F2

P634 SURROUND MODE AND VOLUME C.B.A

P644 JUMPER C.B.A

P654 - DOLBY PRO-LOGIC DECODER CBA

DUAL-TIME CONSTANT AND TRESHOLD SWITCHES
VREF
VREF
OPERATION AND CENTER MODE CONTROL
MOD. DOLBY B-TYPE NR. DECODER
POLARITY SPLITTER
VCA
COMBINING NETWORK
LOG DIFF AMP
FULL WAVE RECTIF
L+R L-R
AUTOBAL SERV
AUTOBAL VCA
AUTOBAL VCA
NOISE SEQ
NOISE SEQ
Q625 NJM2177L
Q627 µPD6345
Q626 M50198P
Q356 LC7821
CONTROLLER
CENTER MODE -NORMAL:0V
CENTER MODE -OFF:0V
CENTER MODE -WIDE:0V
VOLUME UP:4.5V
VOLUME DOWN:4.5V
DELAY TIME CONTROL
SELF RESET
DATA IN
DELAY DATA OUT
MAIN CONT
LPFI
OPT ADAPTIVE DELTA MODULATION
FORE-CAST1
To P.V04 (J558)

SYMBOL LEGEND NOTE:

FOR AN EXPLANATION OF COMPONENT SYMBOLS REFER TO THE COMPONENT SYMBOL CHART ON THE LOWER HALF OF PAGE 10. ALSO NOTE THE FOLLOWING WITH REGARD TO THE SCHEMATICS SHOWN HERE.

- INDICATES SIGNAL GROUND.
- INDICATES CHASSIS GROUND.
- INDICATES AN ELECTROLYTIC CAPACITOR. THE SAME AS:
- INDICATES AN .125W OR .2 W RESISTOR. THE SAME AS: 47k 1/8W
- INDICATES A VARIABLE RESISTOR SUCH AS: 47k 1/8W

C351 A2
C352 C2
C357 C4
C358 C4
C359 B7
C360 C4
C361 B7
C362 B8
C363 B6
C364 B6
C365 B4
C366 B5
C367 A5
C369 B5
C370 A6
C371 A6
C373 B6
C374 A6
C375 A7
C376 A7
C377 A8
C378 A9
C379 B8
C381 A4
C382 C10
C383 A12
C384 C12
C625 G3
C626 G3
C627 E6
C628 E5
C629 E5
C630 E5
C631 F4
C632 F4
C633 F4
C634 F4
C635 G3
C636 G4
C637 G4
C638 H4
C639 H5
C640 H4
C641 H5
C642 H6
C643 H8
C644 H6
C646 G8
C647 G8
C649 D11
C650 F8
C651 F7
C652 F8
C653 E8
C654 E8
C655 F8
C656 E7
C657 E6
C658 E6
C659 E6
C660 E6
C661 F11
C662 F11
C663 F13
C664 H14
C665 G16
C666 F15
C667 F15
C668 F13
C669 F15
C670 F15
C671 F15
C673 F14
C674 F14
C675 F13
C676 G13
C677 G13
C678 F13
C679 G4
C680 F9
C681 H11
C682 H12
C683 F19
C751 B14
C752 B13
C753 B17
C754 C14
C755 B17
C756 B18
C757 C17
C758 C18
D625 H7
D626 E19
D651 H20
J308 A20
J502 G2
J558 B1
J625 A1
J626 C20
J629 E20
J630 G19
Q351 A2
Q352 B4
Q353 B6
Q354 A4
Q355 A5
Q356 C6
Q356 C13
Q625 E4
Q625 F9
Q626 G13
Q355 A9
Q356 A9
Q356 B9
Q356 C4
Q356 C5
Q627 H9
Q628 G11
Q629 F11
Q630 E18
Q751 B16
Q752 C14
Q752 C17
Q753 B17
Q754 B15
Q351 B2
R352 C2
R359 B3
R360 B3
R361 C3
R362 C4
R363 B7
R364 C4
R365 B8
R366 B7
R367 B7
R368 B8
R369 B4
R370 B4
R371 B4
R371 B5
R372 B5
R373 C5
R374 B6
R375 B6
R376 B6
R377 A3
R378 B3
R379 A4
R380 B4
R381 B5
R382 A5
R383 A5
R384 A5
R385 A6
R386 A6
R387 A6
R388 A6
R389 A8
R390 A8
R391 A8
R392 A8
R393 B5
R394 B6
R395 B6
R396 B7
R397 A6
R398 A6
R531 G1
R625 G3
R626 H3
R627 H3
R628 H3
R629 F4
R630 F4
R631 G4
R632 H4
R633 H4
R634 H5
R635 H4
R636 H4
R637 H6
R638 F8
R639 F8
R640 E8
R641 F9
R642 E8
R643 F20
R644 F16
R645 F16
R646 F14
R647 F14
R648 F14
R650 F13
R651 F13
R652 F13
R653 F16
R654 F16
R655 F9
R656 F9
R657 G9
R658 G9
R659 F10
R660 F10
R662 A17
R663 C14
R664 C14
R665 C7
R666 G11
R667 D9
R668 H12
R677 H13
R752 C18
R753 C13
R754 C18
R756 B14
R757 C18
R758 C7
R759 C13
R760 A11
R761 A2
R762 C2
R763 C14
R764 A10
R765 A10
R765 E19
U671 E19
U675 G19
U676 G19
U677 D17
U678 D14
U679 D17
U680 G19
U681 F19
U682 D13
U683 D10
U684 D10
U685 D10
U686 D3
U687 D3
U688 D11
U689 D9
U710 G19
U711 D12
U712 G19
U713 H8
U724 H11
U725 E17
U726 F19
U727 F18
U728 E18
U729 E13
U730 E10
U731 E10
U732 E10
U733 D3
U734 D3
U735 E11
U736 E8
U737 G18
U738 E14
U739 E17
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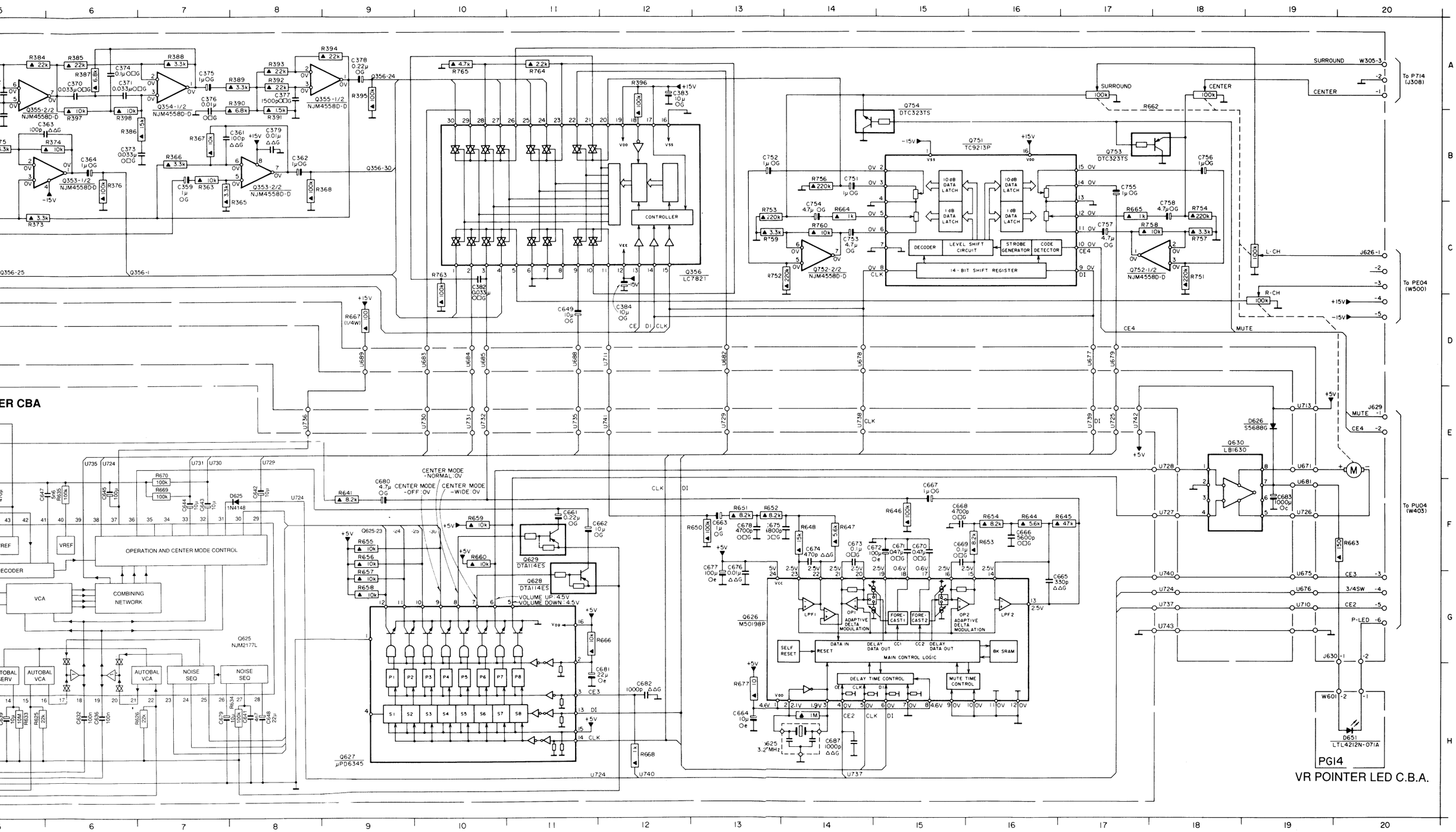
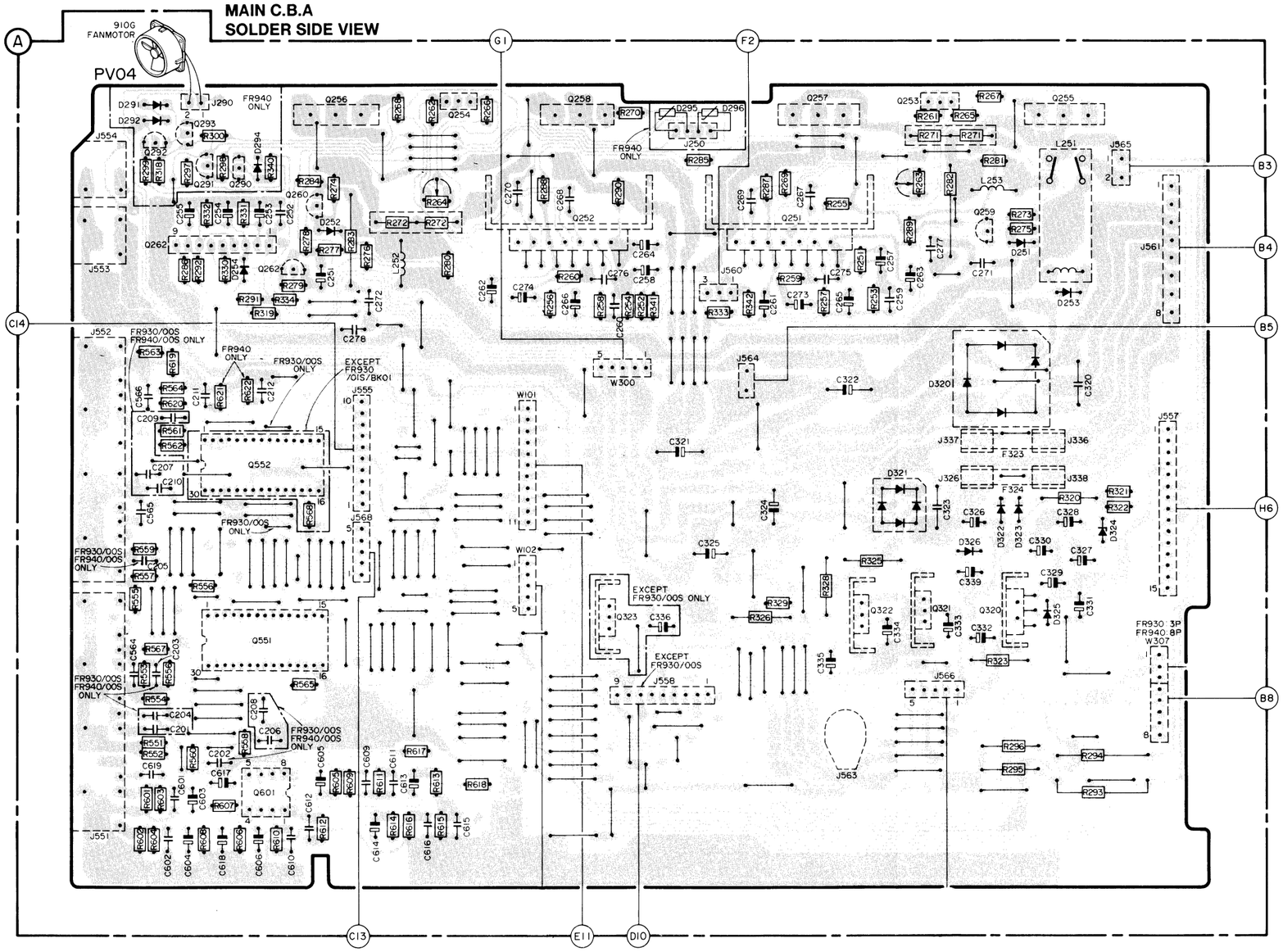
U741 E12
U742 E17
U742 G18
X625 H13



R	R318 R286 R292 R297~R300 R277~R279 R340 R284 R274 R268 R262 R266 R288 R260 R290 R270 R341 R285 R342 R287 R269 R257 R255 R251 R253 R263 R261 R265 R267 R273 R320~R323 R551~R568 R601~R622 R330~R332 R291 R319 R334 R283 R276 R272 R264 R280 R256 R258 R254 R252 R333 R326 R329 R259 R328 R325 R289 R271 R282 R281 R275 R293~R296	R
C	C564~C566 C251~C255 C278 C272 C262 C270 C268 C276 C264 C321 C269 C261 C273 C267 C275 C265 C257 C259 C263 C277 C271 C320 C201~C212 C601~C606 C564~C570 C609~C619 C274 C266 C260 C258 C336 C325 C324 C335 C322 C334 C323 C333 C332 C326 C339 C327~C331	C
Q	Q262 Q290~Q293 Q552 Q551 Q601 Q262 Q260 Q256 Q254 Q258 Q252 Q323 Q251 Q257 Q322 Q353 Q321 Q259 Q320 Q255	Q
D	D291 D292 D254 D294 D252 D295 D296 D321 D320 D322~D326 D251 D253	D
L	L252 L253 L251	L

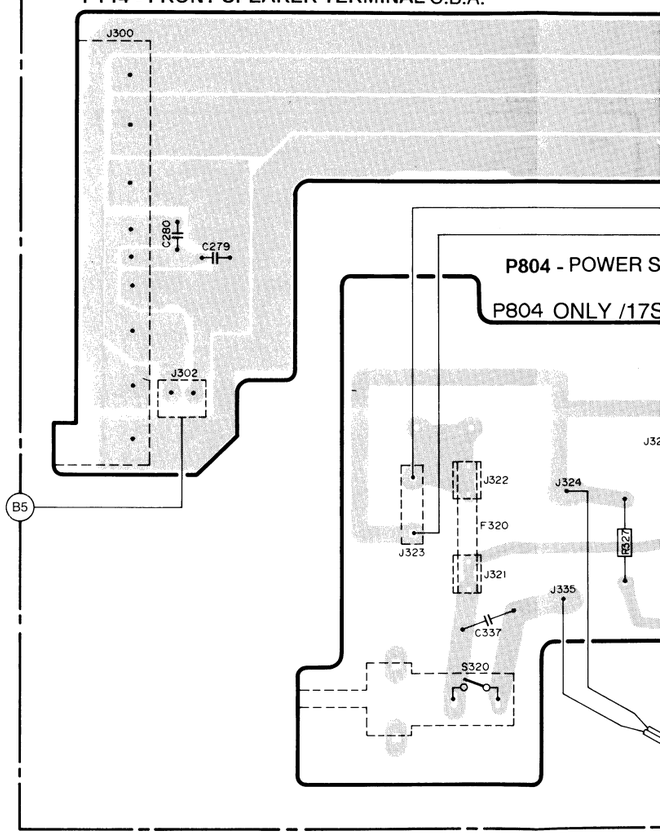
MAIN C.B.A
SOLDER SIDE VIEW



R-C-Q-D	R662 C280 C279 D627 C686 Q631 C337 R327
S-F-L	S320 F320

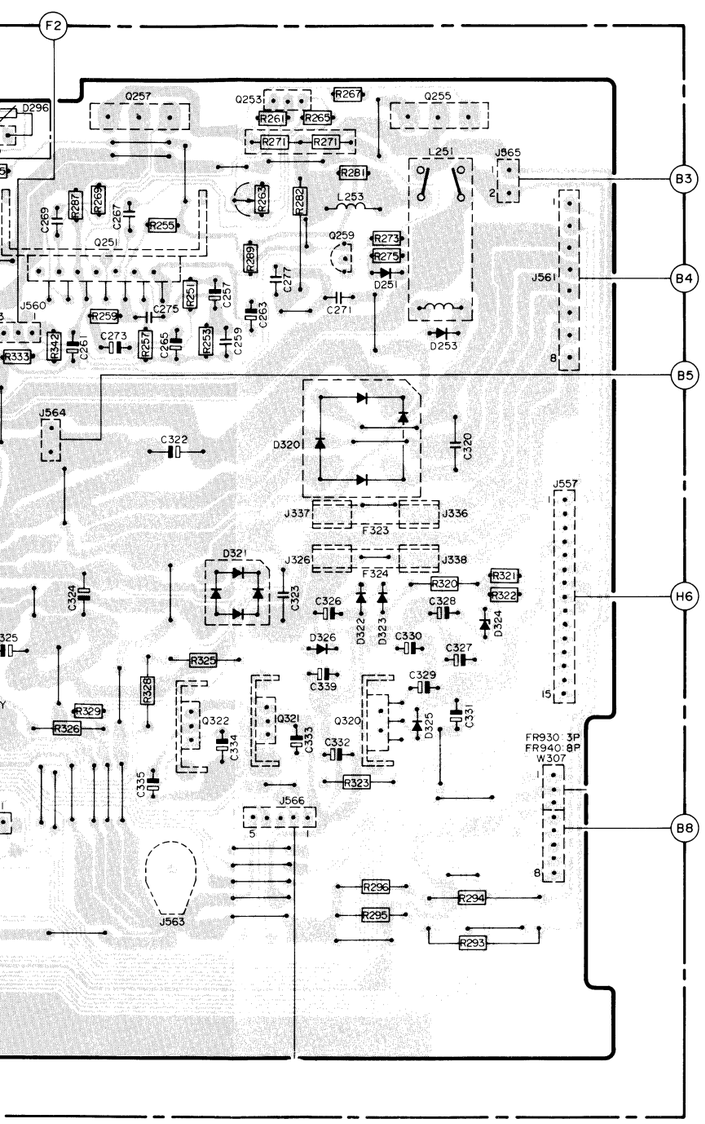
SOLDER SIDE VIEW

PT14 - FRONT SPEAKER TERMINAL C.B.A.

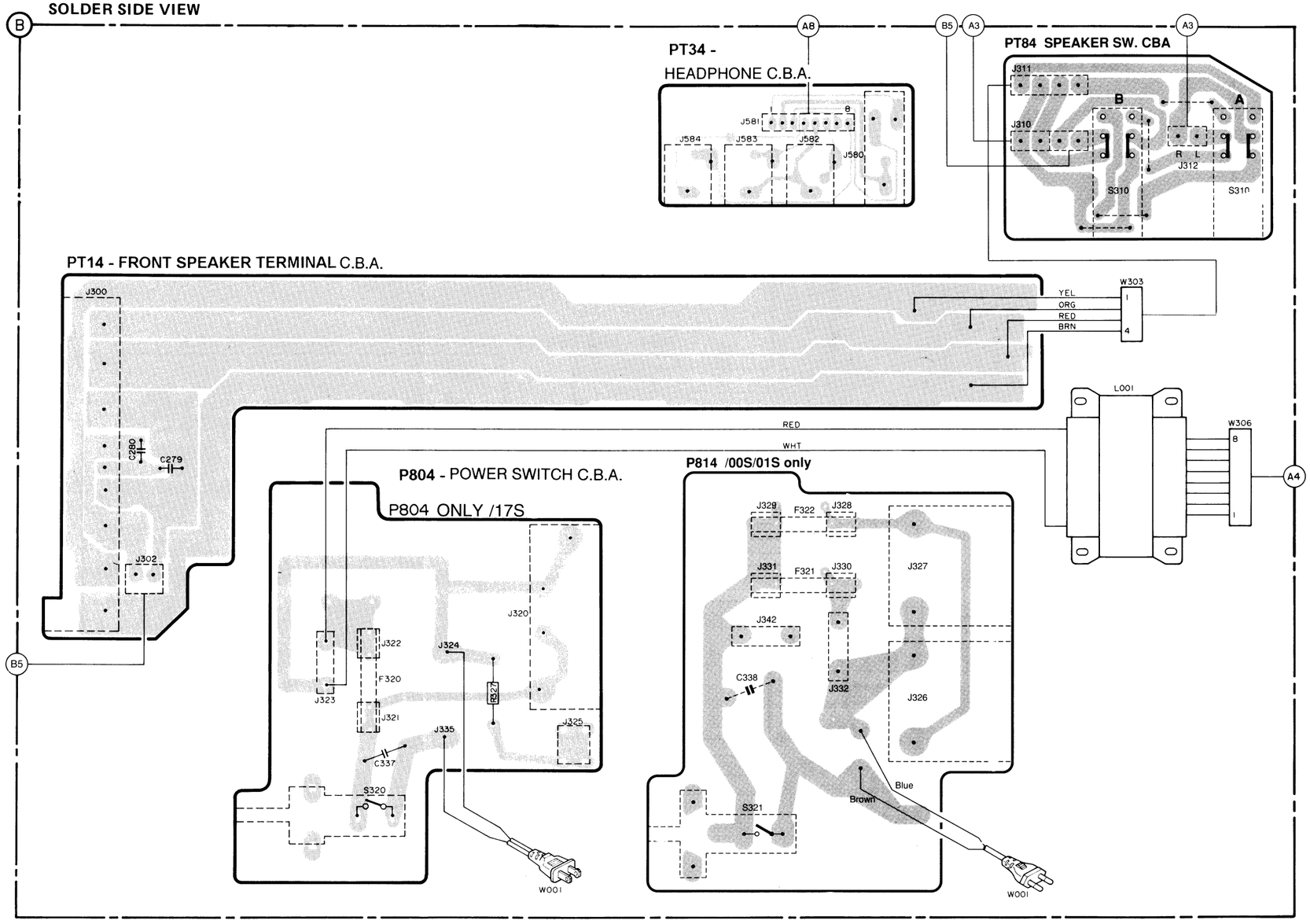


5 R342 R287 R269 R257 R255 R251 R253 R263 R261 R265 R267 R273 R320~R323		R
R333 R326 R329 R259 R328 R325 R289 R271 R282 R281 R275 R293~R296		
C269 C261 C273 C267 C275 C265 C257 C259 C263 C277 C271 C320		C
325 C324 C335 C322 C334 C323 C333 C332 C326 C339 C327 ~ C331		
Q251 Q257 Q322 Q353 Q321 Q259 Q320 Q255		Q
D296 D321 D320 D322~D326 D251 D253		D
L253 L251		L

R-C-Q-D	R662 C280 C279 D627 C686	Q631	C337	R327	C338		R-C-Q-D
S-F-L			S320 F320		S321	S300 L001	S-F-L

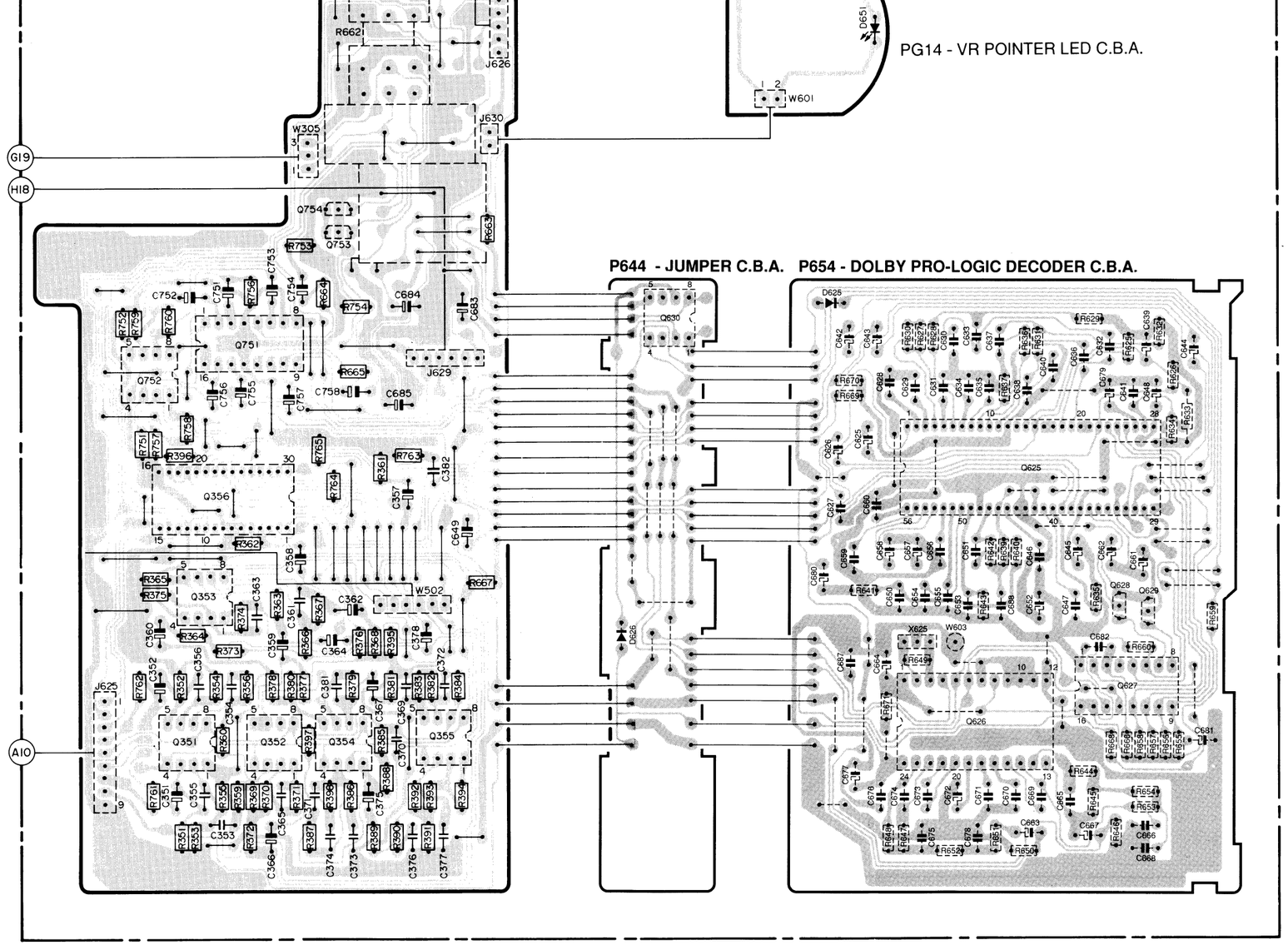


SOLDER SIDE VIEW



R	R752 R751 R396 R756~R762 R753 R662 R664 R665 R754 R763~R765 R667 R663 R670 R669 R630 R627 R628 R637 R636 R631 R629 R625 R632 R634 R626 R633	R
	R351~R356 R359~R365 R369~R380 R366~R368 R397 R398 R381~R395 R671 R647 ~ R652 R639 ~ R643 R644 ~ R646 R635 R668 R666 R653 ~ R660	
C	C751~C758 C358 C359 C361~C367 C357 C382 C649 C642 C643 C625 ~ C631 C650 ~ C660 C688 C632 ~ C641 C679 C648 C644	C
	C351 ~ C356 C381 C369~C378 C680 C687 C663 ~ C678 C645 ~ C647 C682 C662 C661 C681	
Q - D	Q752 Q351 Q353 Q356 Q751 Q352 Q754 Q753 Q354 Q355 D626 Q630 D625 D651 Q626 Q625 Q627~Q629	Q - D
X	X625	X

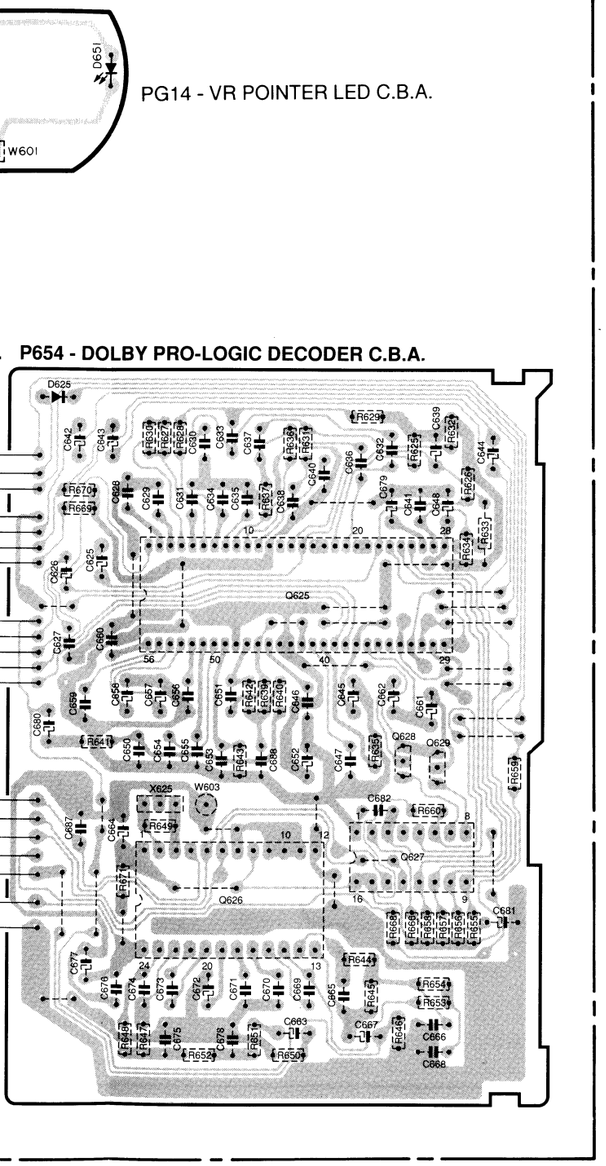
SOLDER SIDE VIEW



Critical components having identified with a ⚠ by the R within a broken line * (wh grouped in one area) alon schematics or exploded view

Use of substitute replaceme specified safety characteris hazards.

R670 R669	R630 R627 R628 R637 R636 R631 R629 R625 R632 R634 R626 R633	R
	R671 R647 ~ R652 R639 ~ R643 R644 ~ R646 R635 R668 R666 R653 ~ R660	
C642 C643	C625 ~ C631 C650 ~ C660 C688 C632 ~ C641 C679 C648 C644	C
C680 C687	C663 ~ C678 C645 ~ C647 C682 C662 C661 C681	
D625 D651	Q626 Q625 Q627~Q629	Q - D
	X625	X



WARNING

Critical components having special safety characteristics are identified with a ⚠ by the Ref. No. in the parts list and enclosed within a broken line * (where several critical components are grouped in one area) along with the safety symbol ⚠ on the schematics or exploded views.

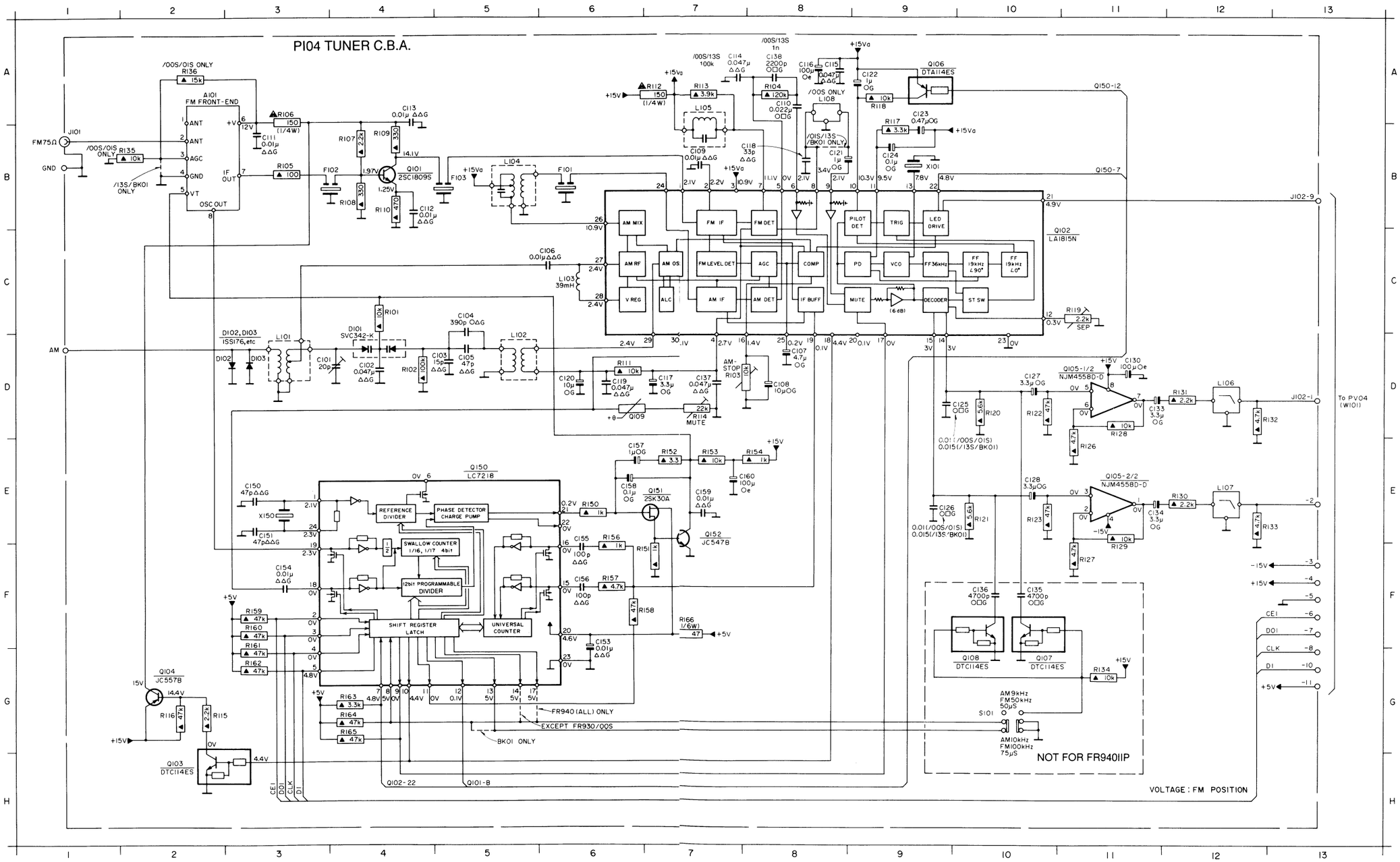
Use of substitute replacement parts which do not have the same specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from Philips Consumer Electronics Company. Philips assumes no liability, express or implied, arising out of any unauthorized modification of design. Servicer assumes all liability.

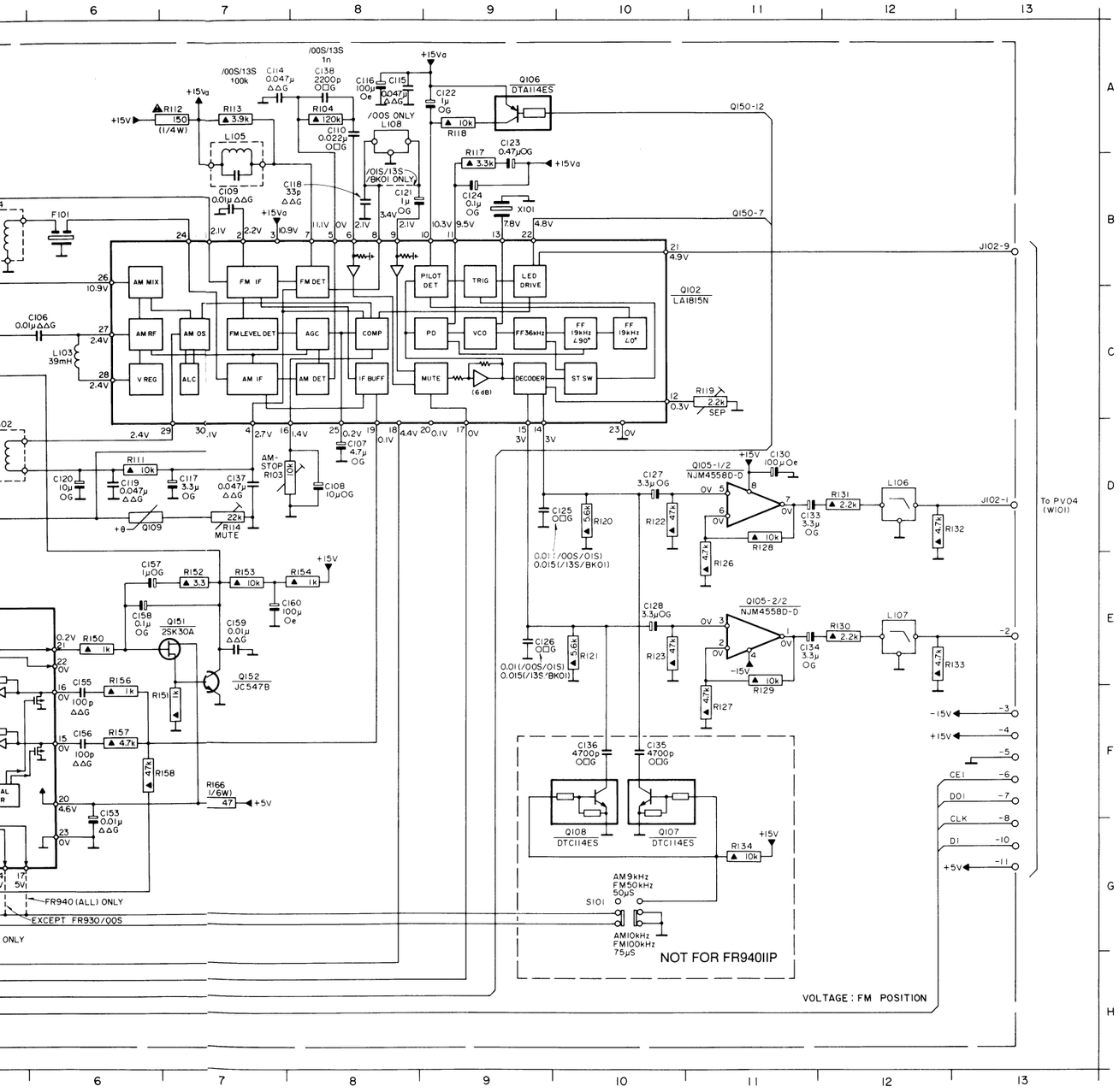
* Broken Line: ▬ - ▬ - ▬ - ▬ · ▬ - ▬ - ▬ - ▬

TUNER SCHEMATIC DIAGRAM

A101 A2	C110 A8	C120 D6	C133 D11	C154 F3	F101 B6	L105 B7	Q105 E11	R101 C4	R111 D6	R121 E10	R133 E12	R157 F6	X101 B9
C101 D4	C111 B3	C121 B8	C134 E11	C155 F6	F102 B3	L106 D12	Q106 A9	R102 D4	R112 A7	R122 D10	R134 G11	R158 F6	X150 E3
C102 D4	C112 B4	C122 A9	C135 F10	C156 F6	F103 B5	L107 E12	Q107 F10	R103 D7	R113 A7	R123 E10	R135 B2	R159 F3	
C103 D5	C113 A4	C123 B9	C136 F10	C157 E6	J1u1 B1	Q101 B4	Q108 F10	R104 A8	R114 D7	R126 E11	R136 A2	R160 F3	
C104 C5	C114 A7	C124 B9	C137 D7	C158 E6	J102 B13	Q101 H5	Q109 D6	R105 B3	R115 G2	R127 F11	R150 E6	R161 G3	
C105 D5	C115 A8	C125 D9	C138 A8	C159 E7	J102 B13	Q102 C11	Q150 A11	R106 A3	R116 G2	R128 D11	R151 F7	R162 G3	
C106 C6	C116 A8	C126 E9	C150 E3	C160 E7	L01 D3	Q102 H4	Q150 B11	R107 B4	R117 B9	R129 E11	R152 E7	R163 G4	
C107 D8	C117 D7	C127 D10	C151 E3	D101 D4	L102 D5	Q103 H2	Q150 E5	R108 B4	R118 A9	R130 E12	R153 E7	R164 G4	
C108 D8	C118 B8	C128 E10	C153 F6	D102 D3	L103 C6	Q104 G2	Q151 E7	R109 B4	R119 C11	R131 D12	R154 E8	R165 G4	
C109 B7	C119 D6	C130 D11	C153 G6	D103 D3	L104 B5	Q105 D11	Q152 E7	R110 B4	R120 D10	R132 D12	R156 F6	R166 G4	



A101	A2	C110	A8	C120	D6	C133	D11	C154	F3	F101	B6	L105	B7	Q105	E11	R101	C4	R111	D6	R121	E10	R133	E12	R157	F6	X101	B9
C101	D4	C111	B3	C121	B8	C134	E11	C155	F6	F102	B3	L106	D12	Q106	A9	R102	D4	R112	A7	R122	D10	R134	G11	R158	F6	X150	E3
C102	D4	C112	B4	C122	A9	C135	F10	C156	F6	F103	B5	L107	E12	Q107	F10	R103	D7	R113	A7	R123	E10	R135	B2	R159	F3		
C103	D5	C113	A4	C123	B9	C136	F10	C157	E6	J101	B1	Q101	B4	Q108	F10	R104	A8	R114	D7	R126	E11	R136	A2	R160	F3		
C104	C5	C114	A7	C124	B9	C137	D7	C158	E6	J102	B13	Q101	H5	Q109	D6	R105	B3	R115	G2	R127	F11	R150	E6	R161	G3		
C105	D5	C115	A8	C125	D9	C138	A8	C159	E7	J102	B13	Q102	C11	Q150	A11	R106	A3	R116	G2	R128	D11	R151	F7	R162	G3		
C106	C6	C116	A8	C126	E9	C150	E3	C160	E7	L101	D3	Q102	H4	Q150	B11	R107	B4	R117	B9	R129	E11	R152	E7	R163	G4		
C107	D8	C117	D7	C127	D10	C151	E3	D101	D4	L102	D5	Q103	H2	Q150	E5	R108	B4	R118	A9	R130	E12	R153	E7	R164	G4		
C108	D8	C118	B8	C128	E10	C153	F6	D102	D3	L103	C6	Q104	G2	Q151	E7	R109	B4	R119	C11	R131	D12	R154	E8	R165	G4		
C109	B7	C119	D6	C130	D11	C153	G6	D103	D3	L104	B5	Q105	D11	Q152	E7	R110	B4	R120	D10	R132	D12	R156	F6	R166	F7		

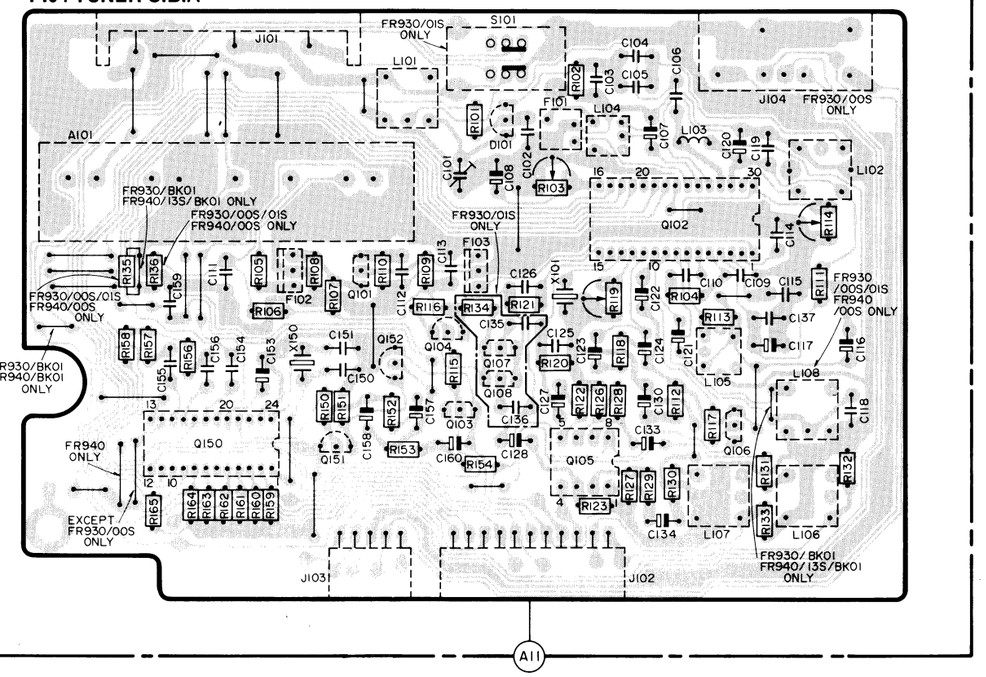


R	R135 R136 R105~R108 R110 R109 R101 R134 R103 R102 R119 R118 R104 R113 R111 R114 R156~R158 R159~R165 R150~R153 R116 R115 R154 R120~R122 R126~R130 R112 R117 R131 R133 R132	R
C	C159 C111 C151 C112 C113 C101 C108 C102 C103~C107 C130 C120 C119 C137 R153~C156 C150 C158 C157 C160 C135 C136 C125~C128 C121~C124 C133 C134 C110 C109 C114~C118	C
Q	Q150 Q151 Q101 Q152 Q104 Q103 Q107 Q108 Q105 Q102 Q106	Q
D - S	S101 D101	D - S
F - L - X	F102 X150 L101 F103 F101 X101 L104 L103 L105 L107 L108 L106 L102	F - L - X

SOLDER SIDE VIEW

E

PI04 TUNER C.B.A



FR951 according to FR940

SYMBOL LEGEND NOTE:

FOR AN EXPLANATION OF COMPONENT SYMBOLS REFER TO THE COMPONENT SYMBOL CHART ON THE LOWER HALF OF PAGE 10. ALSO NOTE THE FOLLOWING WITH REGARD TO THE SCHEMATICS SHOWN HERE.

INDICATES SIGNAL GROUND.

INDICATES CHASSIS GROUND.

INDICATES AN ELECTROLYTIC CAPACITOR. THE SAME AS:

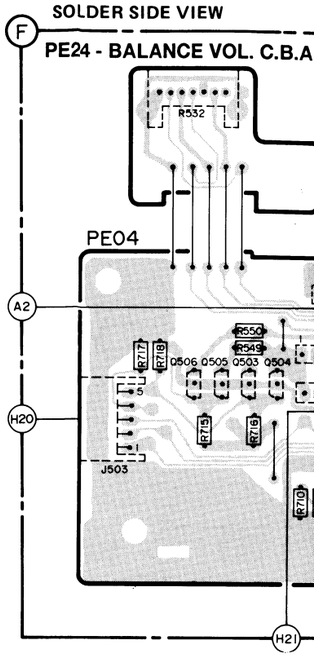
INDICATES AN .125W OR .2 W RESISTOR. THE SAME AS: 47k 1/8W

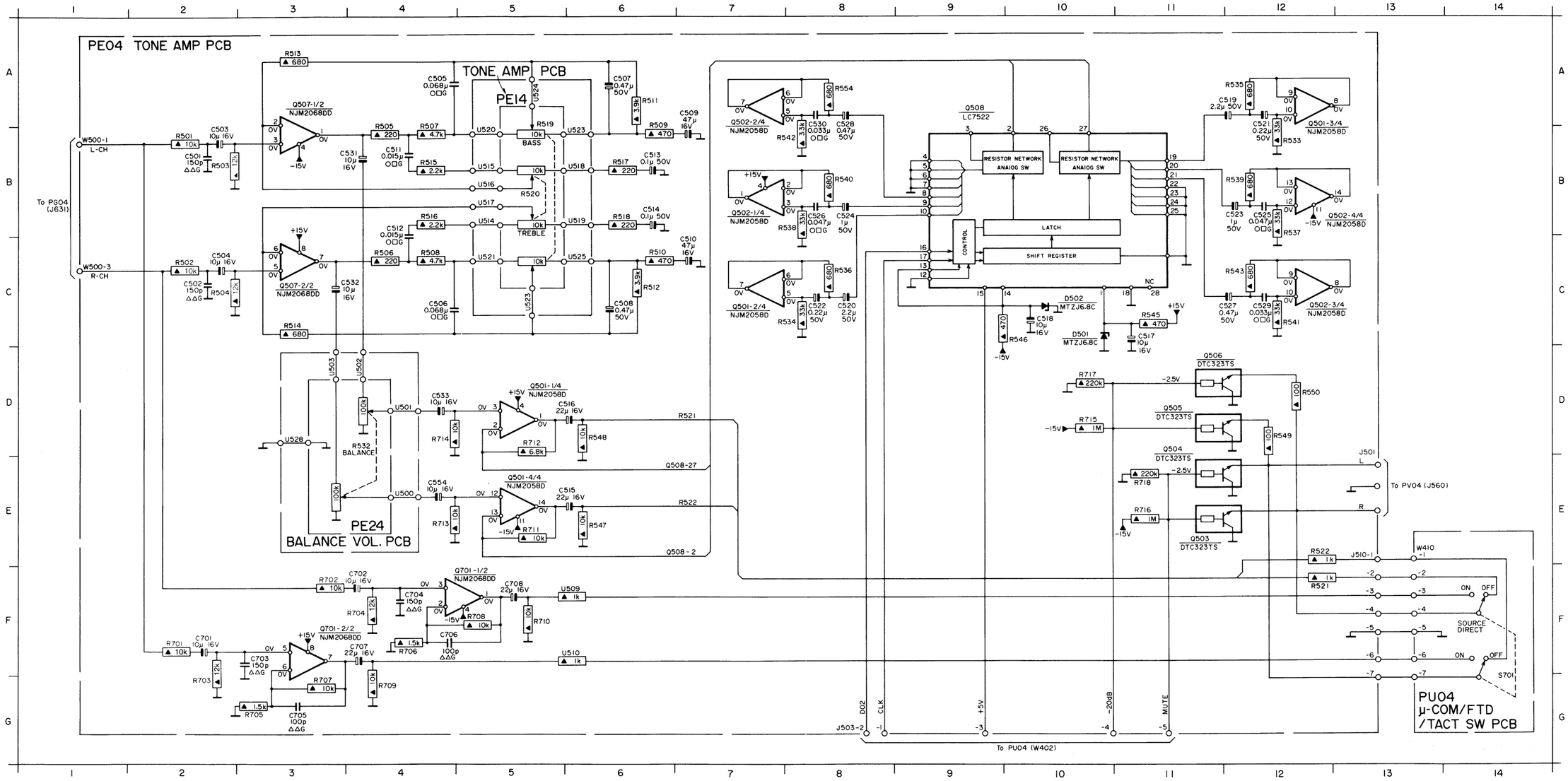
INDICATES A VARIABLE RESISTOR SUCH AS: 47k 1/8W

C501 B2	C511 B4	C521 A12	C531 B4	C707 F4	Q501 E5	Q507 C3	R507 B4	R517 B6	R536 C8	R547 E6	R706 F4	R716 E11
C502 C2	C512 B4	C522 C8	C532 C3	C708 F5	Q502 A7	Q508 A9	R508 C4	R518 B6	R537 B12	R548 D6	R707 G3	R717 D10
C503 B2	C513 B6	C523 B12	C533 D4	D501 C10	Q502 B7	Q701 F3	R509 A6	R519 B5	R538 B8	R549 D12	R708 F5	R718 E11
C504 C2	C514 B6	C524 B8	C554 E4	D502 C10	Q502 B12	Q701 F4	R510 C6	R520 B5	R539 B12	R550 D12	R709 G4	S701 G14
C505 A4	C515 E6	C525 B12	C701 F2	J501 E13	Q502 C12	R501 B2	R511 A6	R521 F12	R540 B8	R554 A8	R710 F5	U509 F5
C506 C4	C516 D6	C526 B8	C702 F4	J503 G8	Q503 E11	R502 C2	R512 C6	R522 E12	R541 C12	R701 F2	R711 E5	U510 F5
C507 A6	C517 C11	C527 C12	C703 F3	J510 E13	Q504 E11	R503 B2	R513 A3	R532 D4	R542 B8	R702 F3	R712 D5	
C508 C6	C518 C10	C528 A8	C704 F4	Q501 A12	Q505 D11	R504 C2	R514 C3	R533 A12	R543 C12	R703 G2	R713 E4	
C509 A7	C519 A12	C529 C12	C705 G3	Q501 C7	Q506 D11	R505 B4	R515 B4	R534 C8	R545 C11	R704 F4	R714 D4	
C510 C7	C520 C8	C530 A8	C706 F4	Q501 D5	Q507 A3	R506 C4	R516 B4	R535 A12	R546 C9	R705 G3	R715 D10	

R	R717 R718 R532	R550												
		R715	R716	R710										
C														
D - Q	Q506 Q505 Q503 Q504													

SOLDER SIDE VIEW





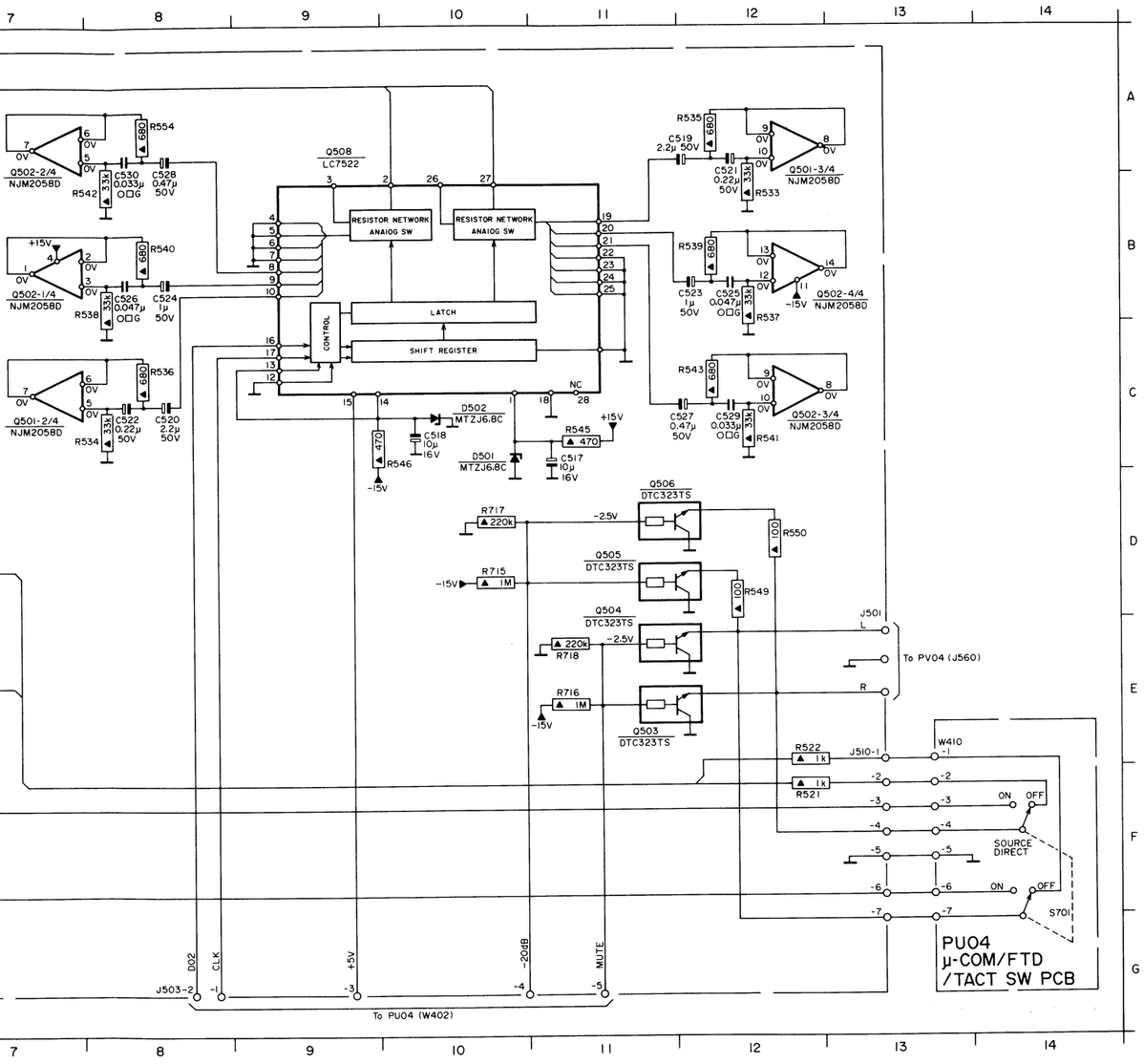
SYMBOL LEGEND NOTE:

FOR AN EXPLANATION OF COMPONENT SYMBO
TO THE COMPONENT SYMBOL CHART ON THE L
HALF OF PAGE 10. ALSO NOTE THE FOLLOWIN
REGARD TO THE SCHEMATICS SHOWN HERE.

⊥ INDICATES SIGNAL GROUND.

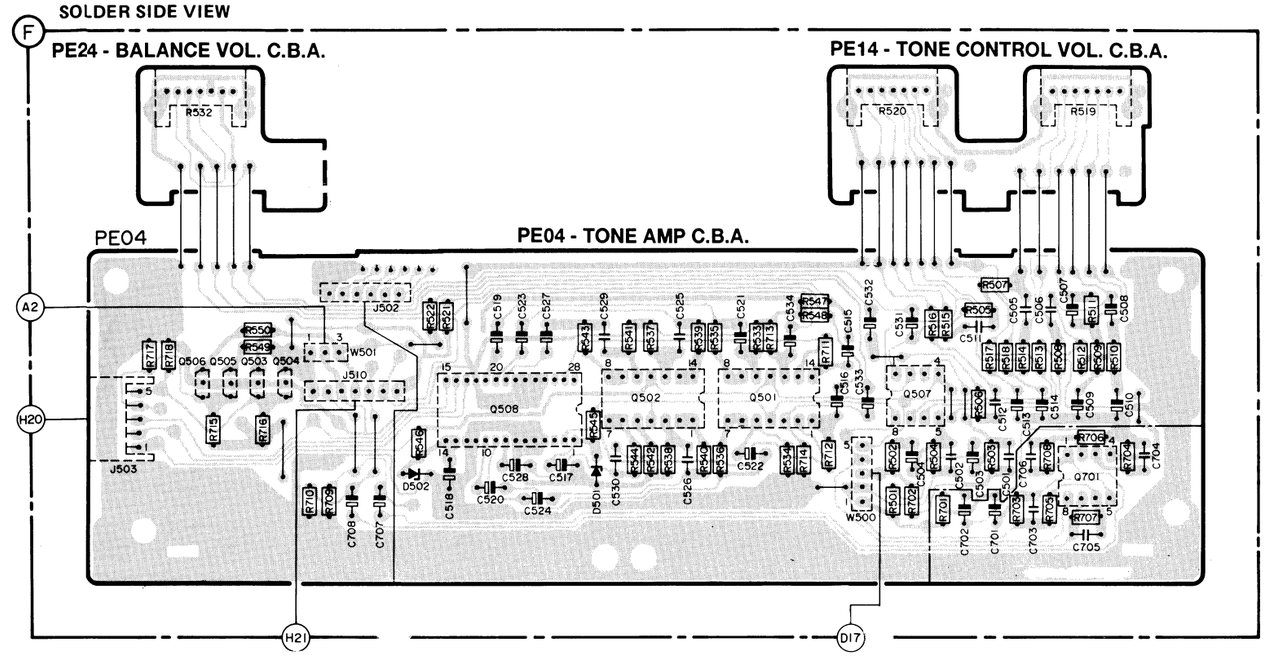
⏚ INDICATES CHASSIS GROUND.

C501 B2	C511 B4	C521 A12	C531 B4	C707 F4	Q501 E5	Q507 C3	R507 B4	R517 B6	R536 C8	R547 E6	R706 F4	R716 E11
C502 C2	C512 B4	C522 C8	C532 C3	C708 F5	Q502 A7	Q508 A9	R508 C4	R518 B6	R537 B12	R548 D6	R707 G3	R717 D10
C503 B2	C513 B6	C523 B12	C533 D4	D501 C10	Q502 B7	Q701 F3	R509 A6	R519 B5	R538 B8	R549 D12	R708 F5	R718 E11
C504 C2	C514 B6	C524 B8	C554 E4	D502 C10	Q502 B12	Q701 F4	R510 C6	R520 B5	R539 B12	R550 D12	R709 G4	S701 G14
C505 A4	C515 E6	C525 B12	C701 F2	J501 E13	Q502 C12	R501 B2	R511 A6	R521 F12	R540 B8	R554 A8	R710 F5	U509 F5
C506 C4	C516 D6	C526 B8	C702 F4	J503 G8	Q503 E11	R502 C2	R512 C6	R522 E12	R541 C12	R701 F2	R711 E5	U510 F5
C507 A6	C517 C11	C527 C12	C703 F3	J510 E13	Q504 E11	R503 B2	R513 A3	R532 D4	R542 B8	R702 F3	R712 D5	
C508 C6	C518 C10	C528 A8	C704 F4	Q501 A12	Q505 D11	R504 C2	R514 C3	R533 A12	R543 C12	R703 G2	R713 E4	
C509 A7	C519 A12	C529 C12	C705 G3	Q501 C7	Q506 D11	R505 B4	R515 B4	R534 C8	R545 C11	R704 F4	R714 D4	
C510 C7	C520 C8	C530 A8	C706 F4	Q501 D5	Q507 A3	R506 C4	R516 B4	R535 A12	R546 C9	R705 G3	R715 D10	



R	R717 R718 R532 R550 R531 R522 R521 R543 R541 R537 R539 R535 R533 R713 R547 R711 R520 R516 R515 R517~R519 R505~R514 R715 R716 R710 R709 R546 R545 R544 R542 R538 R540 R536 R534 R714 R548 R712 R501~R504 R701~R703 R704~R708	R
C	C517~C520 C523 C524 C527~C530 C525 C526 C521 C522 C534 C516 C515 C531 C531~C533 C501~C514 C701~C706	C
D - Q	Q506 Q505 Q503 Q504 D502 Q508 D501 Q502 Q501 Q507 Q701	D - Q

SOLDER SIDE VIEW



SYMIOL LEGEND NOTE:

FOR AI EXPLANATION OF COMPONENT SYMBOLS REFER TO TH: COMPONENT SYMBOL CHART ON THE LOWER HALF)F PAGE 10. ALSO NOTE THE FOLLOWING WITH REGAD TO THE SCHEMATICS SHOWN HERE.

- INDICATES SIGNAL GROUND.
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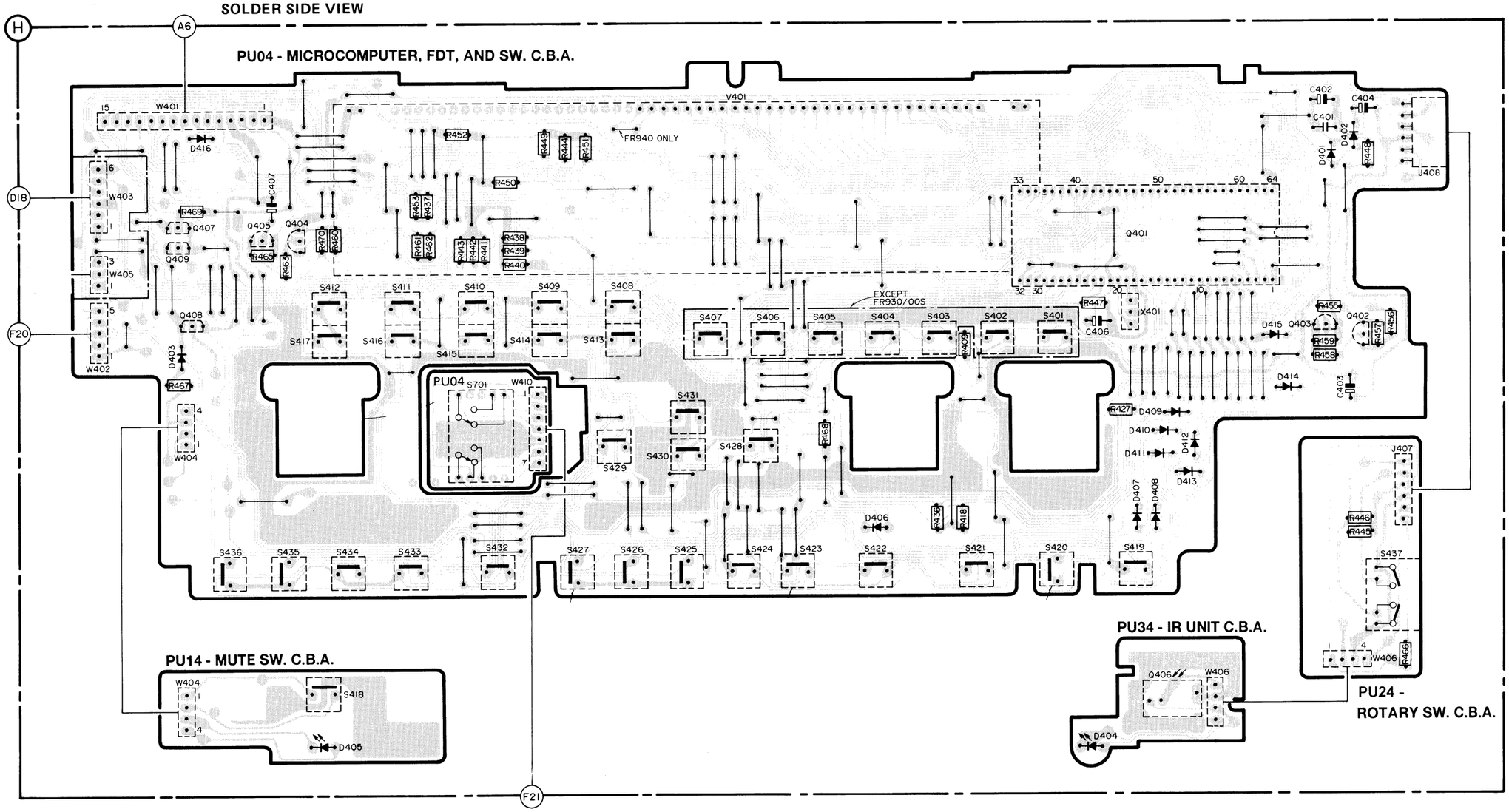
- INDICATES AN ELECTROLYTIC CAPACITOR. THE SAME AS:
- INDICATES AN .125W OR .2 W RESISTOR. THE SAME AS: 47k 1/8W
- INDICATES A VARIABLE RESISTOR SUCH AS: 47k 1/8W

R	R467 R469 R465 R463 R470 R460 R453 R437 R461 R462 R452 R438~R444 R449~R451 R468 R436 R418 R409 R447 R427 R455~R459 R445 R446 R448 R466	R
C	C407 C406 C401 ~ C404	C
Q – D	D403 Q407~Q409 D416 Q405 Q404 D405 D406 D404 Q401 Q406 D407~D413 D415 D414 Q403 D401 D402 Q402	Q – D
S – X	S432~S436 S413~S417 S408~S412 S423~S431 S401~S407 S419~S422 X401 S437	S – X

SOLDER SIDE VIEW



MICROCOMPUTER, FDT, AND SW. PCB SCHEMATIC DIAGRAM

C401 C4
C402 C3
C403 C5
C404 C5
C405 H9
C406 D3
C407 G10
D401 C3
D402 C3
D403 F12
D404 G13
D405 H14
D406 G6
D407 B14
D408 B13
D409 B13
D410 B12
D411 B12
D412 B11
D413 B11
D414 B10
D415 B10
D416 B3
J407 G11
J408 F10
J408 G11
J503 G1
J557 D1
J629 H6
J633 H4
Q401 B8
Q403 H7
Q404 G10
Q405 H7
Q406 H13
Q407 G8
Q408 G4
Q408 H8
R409 D10
R418 E10
R427 E10
R436 F10
R437 G2
R438 F2
R439 G2
R440 F1
R441 H5
R442 H5
R443 H8
R444 F2
R445 H12
R446 H12
R447 D3
R448 C3
R449 F2
R450 F3
R451 H5
R453 F2
R455 H7
R456 H9
R457 H9
R458 H7
R459 H7
R460 G9
R461 G10
R462 G9
R463 G8
R465 H7
R466 G12
R467 F13
R468 F6
R469 G9
R470 G10
S401 D10
S402 D11
S403 D11
S404 D12
S405 D12
S406 D13
S407 D13
S408 D14
S409 D14
S410 E10
S411 E11
S412 E11
S413 E11
S414 E11
S415 E12
S416 D13
S417 D14
S418 D14
S419 E10
S420 E11
S421 E11
S422 E12
S423 E12
S424 E13
S425 E13
S426 E14
S427 E14
S428 E10
S429 E11
S430 E11
S431 E12
S432 E12
S433 E13
S434 E13
S435 E14
S436 E14
S437 H11
V401 A6
X401 E4

PU04 μ-COM. FTD AND SW. C.B.A.

V401

FR940 ONLY

Q401
TMP47C1670AN

D401,D402,D416
ISS176,etc.

D407~D415
ISS176,etc.

D403
ISS176,etc.

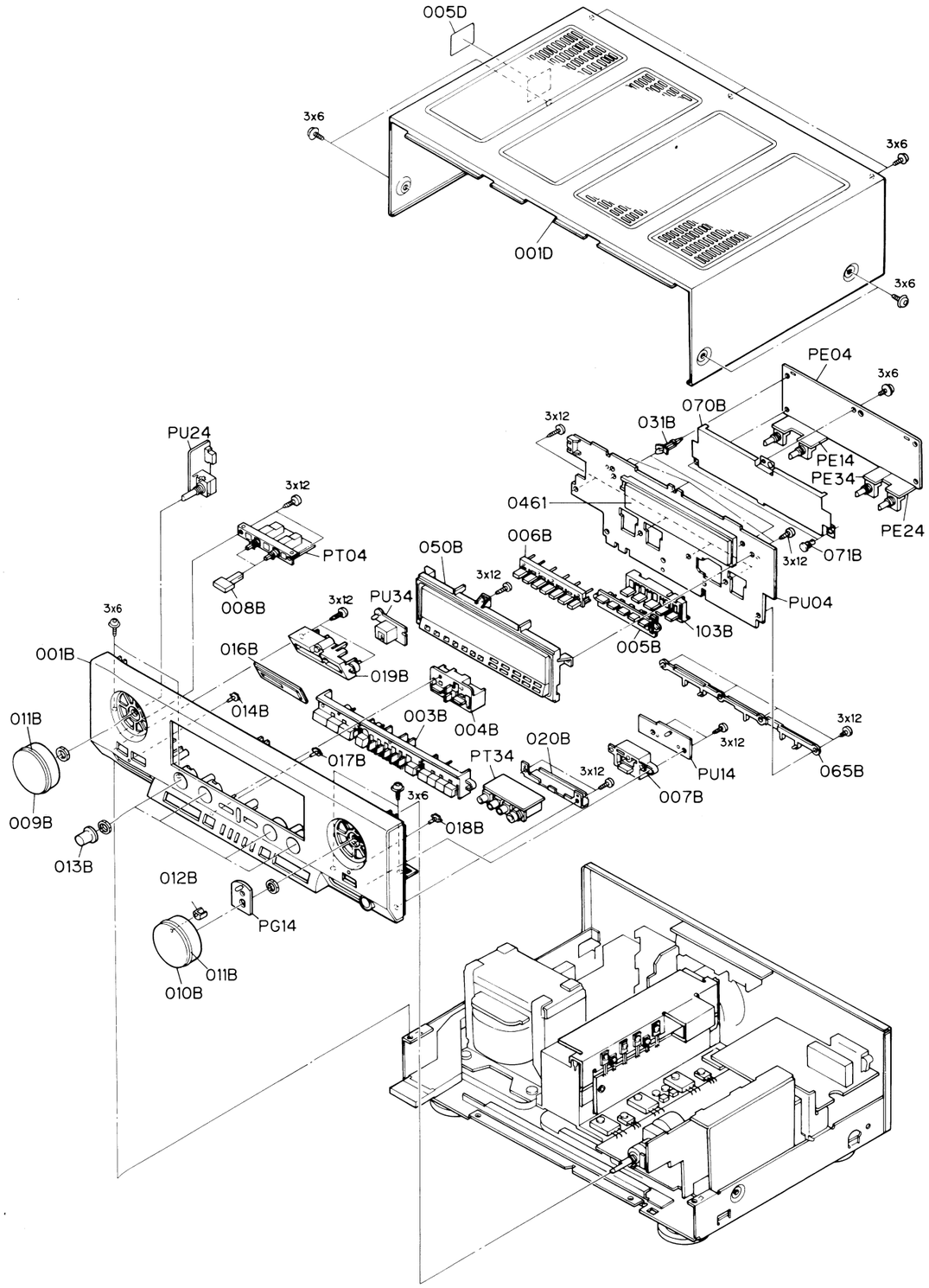
PC
P4
R5
RB
RA
R3
DISPLAY INDICATOR DRIVE
KEY SCAN CONTROL
KE
FLAG
ALU
ACCUMULATOR
DMU
H REGISTER
L REGISTER
RAM ADDRESS BUFFER
DATA MEMORY (RAM)
VFT IND DATA AREA
STACK
SPW
PROGRAM COUNTER
PROGRAM MEMORY (ROM)
HOLD OPERATION MODE CONTROL
SYSTEM CONTROL
SYSTEM CLOCK CONTROL
TIMING GENERATOR
CLOCK GENERATOR
INTERRUPT PRIORITY REGISTER
INTERRUPT PRIORITY F/F
INTERRUPT CONTROL
INTERVAL TIMER
WATCH DOG TIMER
12 BIT TIMER COUNTER (2CH)
8 BIT SERIAL INTERFACE
REMOCON DEMODULATOR
14 BIT D/A CONVERTER(PWM) OUTPUT
INSTRUCTION REGISTER
INSTRUCTION REGISTER
R7
R6
P1
P2
R8
R9
P0
4 BIT A/D CONVERTER INPUT
K0
X401 8MHz
EEL
RC-5
SPK RELAY
DIGITAL
3/4CH
PULSE UP IN
DOWN IN
CE3
CE2
CE1
CLK
DATAOUT1
DATAOUT2
MUTE
STANDBY IND
RC-5 IN
SD IN
IN
LEAST LINK OUT
SPK RELAY
MUTE
V AUX
CE4
K3
K2
K1
K0
S3 S4 S5 S6 S7 S8 S9 S10 S11
D415 D414 D413 D412 D411 D410 D409 D408 D407
S401 DOLBY
S402 3CH LOGIC
S403 HALL
S404 STADIUM
S405 THEATER
S406 SIMULATED
S407 SURR-OFF
S408
S409 2
S410 3
S411 4
S412 5
S413 6
S414 7
S415 8
S416 9
S417 0
S418
S419 VIDEO
S420 DUBBING
S421 SLEEP
S422 AUTO-SEL
S423 SURROUND
S424 COR-TUNER
S425 SND
S426 ACOUSTIC
S427 CENTER
S428 DOWN
S429 UP
S430 -
S431 +
S432 FREQ-DIRECT
S433 AM/FM
S434 DISPLAY
S435 FM-MODE
S436 MEMO
S437
KO
K1
K2
K3
R409
R418
R427
R436
R441
R442
R443
R447
R448
R451
R455
R456
R457
R458
R459
R460
R461
R462
R463
R465
R466
R467
R468
R469
R470
C401 0.01 ΔΔG
C402 100μ 6.3V
C403 0.047F
C404 100μ 6.3V
C405 100μ 6.3V
C406 0.1μ 50V
C407 47μ 16V
Q402 JC5578
Q403 JC5478
Q404 JC5578
Q405 JC5478
Q406 GP1U520X
Q407 DTA114ES
Q408 DTA114ES
Q409 DTA114ES
D406 LTL4212N-071A
D404 LTL4212N-071A STANDBY/IR
D405 LTL4212N-071A MUTE
+5Va
+5Vb
+5.6V
-35V
AC5.8V
DC-33V
W401-1 DC-33V
W402-1 CLK
W403-1
W404
W405-1
W406
J407-1
J408-1
J408-5
PULSE UP
PULSE DOWN
STANDBY IND
VR DOWN
VR UP
VR POINT LED
EXCEPT FR930/00S ONLY
FR930/00S ONLY
To PV04 (J557)
To PE04 (J503)
To PG04 (J633)
To PG04 (J629)

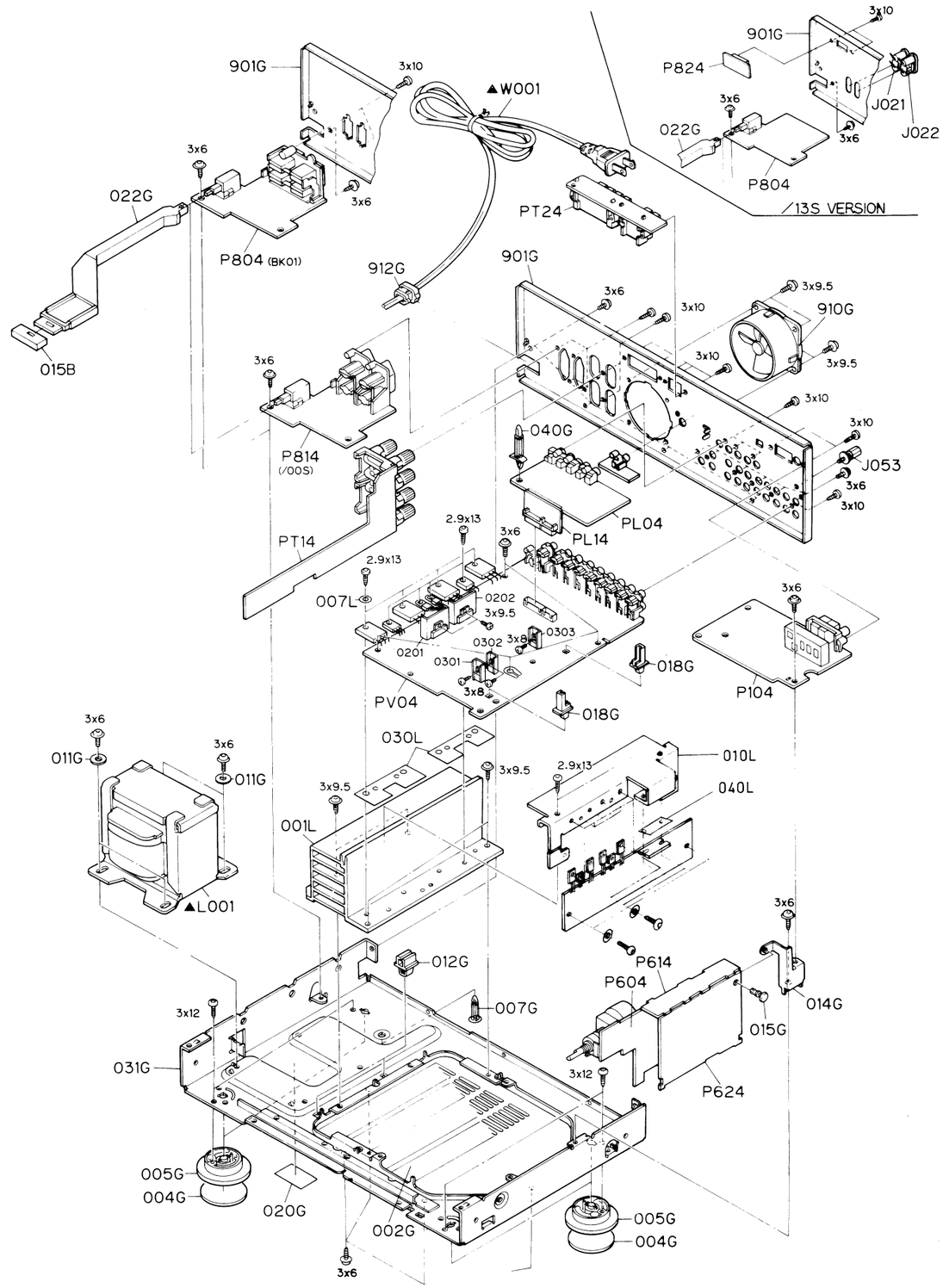
PU24
ROTARY PULSE SW. C.B.A.

PU34 IR UNIT C.B.A.

PU14
MUTE SW. C.B.A.

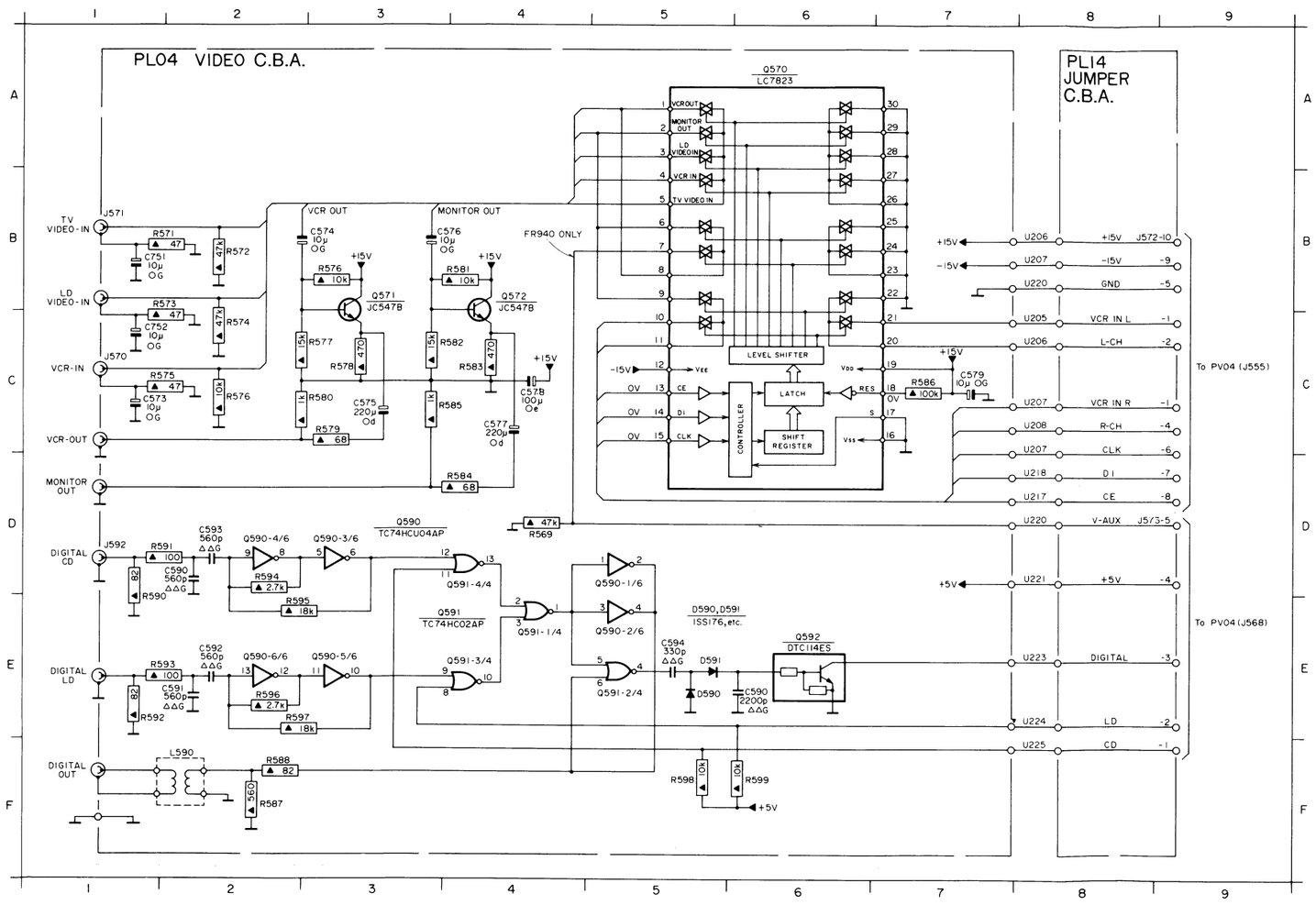
EXPLODED VIEWS



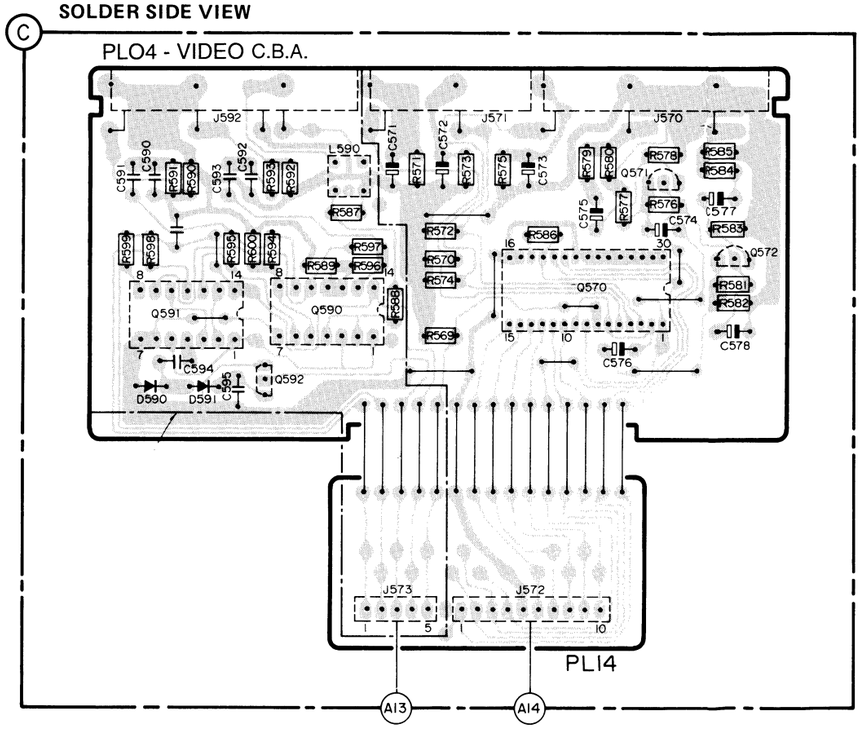


VIDEO SCHEMATIC DIAGRAM

C573 C1	C591 E2	J592 D1	Q590 E5	R575 C1	R585 C3	R596 E2
C574 B3	C592 E2	L590 F2	Q591 D4	R576 B3	R586 C7	R597 E2
C575 C3	C593 D2	Q570 A6	Q591 E4	R576 C2	R587 F2	R598 F5
C576 B3	C594 E5	Q571 B3	Q591 E5	R577 C2	R588 F2	R599 F6
C577 C4	C751 B1	Q572 B4	Q592 E6	R578 C3	R590 D1	
C578 C4	C752 C1	Q590 D2	R569 D4	R579 C3	R591 D1	
C579 C7	J570 C1	Q590 D3	R571 B1	R580 C2	R592 E1	
C590 D2	J571 B1	Q590D5	R571 B2	R582 C3	R593 E1	
C590 E5	J572 B9	Q590 E2	R573 B1	R583 C4	R594 D2	
C590 E6	J573 D9	Q590 E3	R574 C2	R584 D4	R595 E2	



SOLDER SIDE VIEW



SYMBOL LEGEND NOTE:

FOR AN EXPLANATION OF COMPONENT SYMBOLS REFER TO THE COMPONENT SYMBOL CHART ON THE LOWER HALF OF PAGE 10. ALSO NOTE THE FOLLOWING WITH REGARD TO THE SCHEMATICS SHOWN HERE.

- INDICATES SIGNAL GROUND.
- INDICATES CHASSIS GROUND.
- INDICATES AN ELECTROLYTIC CAPACITOR. THE SAME AS:
- INDICATES AN .125W OR .2 W RESISTOR. THE SAME AS: 47k 1/8W
- INDICATES A VARIABLE RESISTOR SUCH AS: 47k 1/8W

C257	4822 124 41284	10µF 50V
C258	4822 124 41284	10µF 50V
C259	4822 122 30099	3,3nF 10% 100V
C260	4822 122 30099	3,3nF 10% 100V
C261	5322 124 40641	10µF 20% 100V
C262	5322 124 40641	10µF 20% 100V
C263	5322 124 40641	10µF 20% 100V
C264	5322 124 40641	10µF 20% 100V
C265	4822 124 22262	100µF 35V
C266	4822 124 22262	100µF 35V
C267	5322 122 32776	27pF 2% 500V
C268	5322 122 32776	27pF 2% 500V
C269	5322 121 42386	100nF 5% 63V
C270	5322 121 42386	100nF 5% 63V
C271	5322 121 42465	68nF 5% 63V
C272	5322 121 42465	68nF 5% 63V
C273	4822 124 22262	100µF 35V
C274	4822 124 22262	100µF 35V
C282	4822 126 12808	2N2 ONLY/00S
C285	4822 126 12808	2N2 ONLY/00S
C286	4822 126 12808	2N2 ONLY/00S
C287	4822 126 12808	2N2 ONLY/00S
C290	4822 124 41284	10µF 50V
C320	4822 126 12453	0,01µF 500V
C321	4822 124 80864	6800µF 20% 71V
C322	4822 124 80864	6800µF 20% 71V
C323	4822 126 12453	0,01µF 500V
C324	4822 124 80463	4700µF 20% 35V
C325	4822 124 80463	4700µF 20% 35V
C326	4822 124 41665	22µF 50V
C327	4822 124 22008	100µF 50V
C328	4822 124 22008	100µF 50V
C329	4822 124 41284	10µF 50V
C330	4822 124 21407	0,47µF 50V
C331	4822 124 41284	10µF 50V
C332	4822 124 41284	10µF 50V
C333	4822 124 41284	10µF 50V
C334	4822 124 41284	10µF 50V
C335	4822 124 41284	10µF 50V
C336	4822 124 41284	10µF 50V
C337	4822 122 33276	0,01µF 400V
C338	4822 126 13332	10N 400V ONLY/00S
C339	4822 124 21683	1µF 50V
C351	4822 124 21683	1µF 50V
C352	4822 124 21683	1µF 50V
C357	4822 124 41284	10µF 50V
C358	4822 124 41284	10µF 50V
C359	4822 124 21683	1µF 50V
C360	4822 124 21683	1µF 50V
C362	4822 124 21683	1µF 50V
C364	4822 124 21683	1µF 50V
C366	4822 124 21683	1µF 50V
C367	4822 124 21683	1µF 50V
C369	5322 121 42465	68nF 5% 63V
C370	4822 121 43145	33nF 10% 50V
C371	4822 121 43145	33nF 10% 50V
C372	4822 122 31205	47pF 2% 500V
C373	4822 121 43145	33nF 10% 50V
C374	5322 121 42386	100nF 5% 63V
C375	4822 124 21683	1µF 50V
C376	4822 121 51304	10nF 10% 50V
C377	4822 121 51096	1,5nF 50V
C378	4822 124 40746	0,22µF 20% 63V
C382	4822 121 43145	33nF 10% 50V
C383	4822 124 41284	10µF 50V
C384	4822 124 41284	10µF 50V
C401	4822 122 30043	10nF 80% 63V
C402	4822 126 10935	100µF 10V
C403	4822 124 23128	47000µF 5,5V
C404	4822 126 10935	100µF 10V
C405	4822 126 10935	100µF 10V
C406	4822 124 41604	0,1µF 50V
C407	4822 124 23056	47µF 20% 16V
C408	4822 122 30043	10nF 80% 63V
C501	4822 122 33298	150pF 5% 50V
C502	4822 122 33298	150pF 5% 50V
C503	4822 124 21894	10µF 16V
C504	4822 124 21894	10µF 16V
C505	5322 121 42662	68nF 5% 250V
C506	5322 121 42662	68nF 5% 250V
C507	4822 124 42202	0,47µF 20% 50V
C508	4822 124 42202	0,47µF 20% 50V
C509	4822 124 23056	47µF 20% 16V
C510	4822 124 23056	47µF 20% 16V
C511	4822 121 51305	15nF 10% 50V
C512	4822 121 51305	15nF 10% 50V
C513	4822 124 41604	0,1µF 50V
C514	4822 124 41604	0,1µF 50V
C515	4822 124 23055	22µF 20% 16V
C516	4822 124 23055	22µF 20% 16V
C517	4822 124 21894	10µF 16V
C518	4822 124 21894	10µF 16V
C519	4822 124 40786	2,2µF 20% 63V
C520	4822 124 40786	2,2µF 20% 63V
C521	4822 124 21895	0,22µF 50V
C522	4822 124 21895	0,22µF 50V
C523	4822 124 23053	1µF 20% 50V
C524	4822 124 23053	1µF 20% 50V
C525	4822 121 43526	47nF 5% 250V
C526	4822 121 43526	47nF 5% 250V
C527	4822 124 42202	0,47µF 20% 50V
C528	4822 124 42202	0,47µF 20% 50V
C529	4822 121 43145	33nF 10% 50V
C530	4822 121 43145	33nF 10% 50V
C531	4822 124 21894	10µF 16V
C532	4822 124 21894	10µF 16V
C533	4822 124 21894	10µF 16V
C534	4822 124 21894	10µF 16V
C535	5322 122 32334	220pF 10% 100V
C536	5322 122 32334	220pF 10% 100V
C537	4822 126 12808	2N2 50V ONLY/00S
C564	4822 124 41284	10µF 50V
C565	4822 122 30043	10nF 80% 63V
C566	4822 122 30043	10nF 80% 63V
C567	4822 122 33307	10N 50V ONLY/00S
C571	4822 124 41284	10µF 50V
C572	4822 124 41284	10µF 50V
C573	4822 124 41284	10µF 50V
C574	4822 124 41284	10µF 50V
C575	4822 124 40181	220µF 20% 10V
C576	4822 124 41284	10µF 50V
C577	4822 124 40181	220µF 20% 10V
C578	4822 124 41139	100µF 16V
C579	4822 124 41284	10µF 50V
C591	5322 122 32334	220pF 10% 100V
C593	5322 122 32334	220pF 10% 100V
C594	4822 126 12671	330pF 10% YB 50V
C595	4822 126 12808	2,2nF 10% YB 50V
C601	4822 122 33298	150pF 5% 50V
C601	5322 122 32311	470pF ONLY/00S
C602	4822 122 33298	150pF 5% 50V
C602	5322 122 32311	470pF ONLY/00S
C603	4822 124 41284	10µF 50V
C604	4822 124 41284	10µF 50V
C605	4822 124 21821	22µF 16V
C606	4822 124 21821	22µF 16V
C609	4822 121 51304	10nF 10% 50V
C610	4822 121 51304	10nF 10% 50V
C611	4822 122 30099	3,3nF 10% 100V
C612	4822 122 30099	3,3nF 10% 100V
C613	4822 124 41284	10µF 50V
C613	4822 124 40242	1U 50V ONLY/00S
C614	4822 124 41284	10µF 50V
C614	4822 124 40242	1U 50V ONLY/00S
C615	4822 122 30099	3,3nF 10% 100V
C616	4822 122 30099	3,3nF 10% 100V
C617	4822 124 21821	22µF 16V
C618	4822 124 21821	22µF 16V
C619	4822 122 30043	10nF 80% 63V
C625	4822 124 41284	10µF 50V
C626	4822 124 41284	10µF 50V
C627	5322 121 42386	100nF 5% 63V
C628	5322 121 42386	100nF 5% 63V
C629	5322 121 42386	100nF 5% 63V
C630	4822 121 43144	22nF 10% 50V
C631	4822 121 43144	22nF 10% 50V
C632	5322 121 42386	100nF 5% 63V
C633	5322 121 42386	100nF 5% 63V
C634	5322 122 32052	680pF 10% 100V
C635	4822 121 43526	47nF 5% 250V
C636	5322 121 42386	100nF 5% 63V
C637	5322 121 42386	100nF 5% 63V
C638	5322 122 32052	680pF 10% 100V
C639	4822 124 41402	10µF 20% 50V
C640	4822 121 43526	47nF 5% 250V
C641	4822 121 51303	4,7nF 10% 50V
C642	4822 124 41402	10µF 20% 50V
C643	4822 124 41284	10µF 50V
C644	4822 124 41402	10µF 20% 50V
C645	4822 124 41643	100µF 20% 16V
C646	4822 121 43526	47nF 5% 250V
C647	4822 121 70176	5,6nF 10% 50V
C648	5322 124 41431	22µF 20% 35V
C649	4822 124 41284	10µF 50V
C650	4822 121 51302	3,9nF 10% 50V
C651	5322 122 32052	680pF 10% 100V
C652	4822 124 21852	470µF 16V
C653	5322 121 42498	680nF 5% 63V
C654	4822 121 42868	220nF 5% 50V
C655	4822 121 42868	220nF 5% 50V
C656	4822 121 42868	220nF 5% 50V
C657	4822 124 40246	4,7µF 20% 63V
C658	4822 124 40246	4,7µF 20% 63V
C659	4822 121 42868	220nF 5% 50V
C660	5322 121 42386	100nF 5% 63V
C661	4822 124 40746	0,22µF 20% 63V
C662	4822 124 41284	10µF 50V
C663	4822 124 21683	1µF 50V
C664	4822 124 41284	10µF 50V
C665	5322 122 32335	330pF 10% 100V
C666	4822 121 70176	5,6nF 10% 50V
C667	4822 124 21683	1µF 50V
C668	4822 121 51303	4,7nF 10% 50V
C669	5322 121 42386	100nF 5% 63V
C670	4822 121 51252	470nF 5% 63V
C671	4822 121 51252	470nF 5% 63V
C672	4822 124 41139	100µF 16V
C673	5322 121 42386	100nF 5% 63V
C674	5322 122 32311	470pF 10% 100V
C675	4822 121 51348	6,8nF 10% 50V
C676	4822 122 30043	10nF 80% 63V
C677	4822 124 41139	100µF 16V
C678	4822 121 51303	4,7nF 10% 50V
C679	4822 124 41402	10µF 20% 50V
C680	4822 124 21844	4,7µF 50V
C681	4822 124 21821	22µF 16V
C682	5322 122 32331	1nF 10% 100V
C683	4822 124 40728	1000µF 20% 6,3V
C687	5322 122 32331	1nF 10% 100V
C688	4822 121 43898	8,2nF 5% 250V
C701	4822 124 22826	10µF 16V
C702	4822 124 22826	10µF 16V
C703	4822 122 31072	47pF 2% 100V
C704	4822 122 31072	47pF 2% 100V
C707	4822 124 23055	22µF 20% 16V
C708	4822 124 23055	22µF 20% 16V

MECHANICAL PARTSLIST

001B	4822 426 51735	FRONT ASSY
001T	4822 736 53839	IFU FR951
001T	4822 736 22125	IFU ONLY/00S
003B	4822 410 62061	BUTTON, NOSE
004B	4822 410 62068	BUTTON,CURSOL
004G	4822 462 41887	RUBBER, LEG
005B	4822 410 62063	BUTTON, 10kEY UPPER
005G	4822 462 41888	LEG
006B	4822 410 62064	BUTTON SURROUND MODE
007B	4822 410 62065	BUTTON, µH TING
008B	4822 410 62066	BUTTON, SPEAKER
009B	4822 413 31708	KNOB, SELECTOR
010B	4822 413 41733	KNOB, VOLUME
011B	4822 532 21449	RUBBER, RING
012B	4822 413 41733	LENS, POINTER
013B	4822 413 41704	KNOB, BALANCE
014B	4822 381 11311	LENS, STANDBY
015B	4822 462 71808	POWER KNOB
016B	4822 381 11347	LENS, IR SENSOR
017B	4822 381 11311	LENS, AUTO SELECTOR
018B	4822 381 11311	LENS, µH TING
022G	4822 404 21245	LEVER, POWER
050B	4822 454 12845	ESCUT ASSY, WINDOW
103B	4822 410 62069	BUTTON, 10kEY LOWER
910G	4822 361 10653	FAN
912G	4822 532 60948	BUSHING, AC CORD
J053	4822 290 40297	TERMINAL GND
L001	4822 146 31269	TRANSFORMER MAINS
L001	4822 146 31392	MAINS TRAFO ONLY/00S
W001	4822 321 10521	MAINS CORD
W001	4822 321 10781	CORD SET ONLY/00S
Z001	4822 218 10469	REM CONRTOL RC6624
Z003	4822 158 60622	AM FRAME AERIAL
Z004	4822 321 61668	PIN CORD ASSY
Z005	4822 303 30314	FM ANTENNA WIRE
Z005	4822 303 50055	FM ANT. ONLY/00S
Z006	4822 264 30265	ANTENNA ADAPTOR

MISCELLANEOUS

A101	4822 210 10397	TUNER FE337-A05
A101	4822 210 10609	FE415-G09 ONLY/00S
F320	4822 253 30399	FUSE 6.3A 125V
F321	4822 253 50145	FUSE 3.15A ONLY/00S
F322	4822 253 30383	FUSE 2.5A ONLY/00S
F323	4822 253 30411	FUSE M5.0A 125V
F323	4822 070 34002	FUSE 4A ONLY/00S
F324	4822 253 30411	FUSE M5.0A 125V
F324	4822 070 34002	FUSE 4A ONLY/00S
J101	4822 290 81537	SOCKET-ANTENNA
J101	4822 290 81672	ANTENNA ONLY/00S
J300	4822 290 40496	SOCKET SPK 8P
J320	4822 267 31286	SOCKET-MAINS 15A 125
J326	4822 265 20594	AC OUTLET ONLY/00S
J327	4822 265 20594	AC OUTLET ONLY/00S
J328	4822 256 30495	CLIP FUSE
J329	4822 256 30487	CLIP FUSE
J511	4822 290 40209	TERMINAL-PCB GND
J551	4822 267 31451	PIN JACK 14/14 2L8P
J552	4822 267 31451	PIN JACK 14/14 2L8P
J553	4822 265 20542	PIN JACK 14/14 2L2P
J554	4822 265 20543	PIN JACK 14/14 1L1P
J563	4822 290 40209	TERMINAL-PCB GND
J570	4822 265 41264	SOCKET-PHONO 3P
J571	4822 265 41263	SOCKET-PHONO 2P
J580	4822 265 20555	JACKS H/PHONE
J582	4822 290 81521	SOCKET-PHONE 1P
J583	4822 290 81522	SOCKET-PHONE 1P
J584	4822 290 81523	SOCKET-PHONE 1P
J592	4822 267 41157	SOCKET 3P
J905	4822 267 31457	SOCKET CINCH
J906	4822 290 81525	SOCKET-SPK 2P
J907	4822 290 81526	SOCKET PUSH TERM
0461	4822 256 91966	HOLDER FL
V401	4822 130 91145	DISPLAY 12-BT-69GK

CAPACITORS

C101	4822 125 60185	TRIMMER 20P 50V
C102	4822 122 40306	47nF 50V
C103	4822 126 12301	15pF 5% 50V
C104	5322 121 54128	390pF 1% 630V
C105	4822 122 31205	47pF 2% 500V
C106	4822 122 30043	10nF 80% 63V
C107	4822 124 21844	4,7µF 50V
C108	4822 124 41284	10µF 50V
C109	4822 122 30043	10nF 80% 63V
C110	4822 121 43144	22nF 10% 50V
C111	4822 122 30043	10nF 80% 63V
C112	4822 122 30043	10nF 80% 63V
C113	4822 122 30043	10nF 80% 63V
C114	4822 122 40306	47nF 50V
C115	4822 122 40306	47nF 50V
C116	4822 124 41139	100µF 16V
C117	4822 124 22284	3,3µF 50V
C118	4822 122 31202	33pF 2% 500V
C119	4822 122 40306	47nF 50V
C120	4822 124 41284	10µF 50V
C121	4822 124 21683	1µF 50V
C122	4822 124 21683	1µF 50V
C123	4822 124 21407	0,47µF 50V
C124	5322 124 41473	0.1µF 20% 63V
C125	4822 121 51305	15nF 10% 50V
C125	4822 121 51304	10N 50V ONLY/00S
C126	4822 121 51305	15nF 10% 50V
C126	4822 121 51304	10N 50V ONLY/00S
C127	4822 124 22284	3,3µF 50V
C128	4822 124 22284	3,3µF 50V
C130	4822 124 41139	100µF 16V
C133	4822 124 22284	3,3µF 50V
C134	4822 124 22284	3,3µF 50V
C137	4822 122 40306	47nF 50V
C138	4822 121 70099	15pF 5%
C138	4822 121 51299	1N 50V ONLY/00S
C150	4822 122 31205	47pF 2% 500V
C151	4822 122 31205	47pF 2% 500V
C153	4822 122 30043	10nF 80% 63V
C154	4822 122 30043	10nF 80% 63V
C157	4822 124 21683	1µF 50V
C158	5322 124 41473	0.1µF 20% 63V
C159	4822 122 30043	10nF 80% 63V
C160	4822 124 41139	100µF 16V
C161	4822 122 30043	10nF 80% 63V
C162	4822 122 30043	10nF 80% 63V
C201	5322 122 32311	470pF ONLY/00S
C202	5322 122 32311	470pF ONLY/00S
C203	5322 122 32311	470pF ONLY/00S
C204	5322 122 32311	470pF ONLY/00S
C205	5322 122 32311	470pF ONLY/00S
C206	5322 122 32311	470pF ONLY/00S
C207	5322 122 32311	470pF ONLY/00S
C208	5322 122 32311	470pF ONLY/00S
C209	5322 122 32311	470pF ONLY/00S
C210	5322 122 32311	470pF ONLY/00S
C211	4822 121 51096	1,5nF 50V
C212	4822 121 51096	1,5nF 50V
C251	4822 124 41287	47µF 16V
C252	4822 122 30043	10nF 80% 63V
C253	4822 124 40181	220µF 20% 10V
C254	4822 124 21683	1µF 50V
C255	4822 124 41284	10µF 50V

R113	4822 116 52269	3k3 5% 0,5W
R114	4822 100 11352	PRESET 22k
R115	4822 116 52256	2k2 5% 0,5W
R116	4822 116 52284	47k 5% 0,5W
R117	4822 116 52269	3k3 5% 0,5W
R118	4822 116 52233	10k 5% 0,5W
R119	4822 100 20681	PRESET 2k2
R120	4822 116 52289	5k6 5% 0,5W
R121	4822 116 52289	5k6 5% 0,5W
R122	4822 116 52284	47k 5% 0,5W
R123	4822 116 52284	47k 5% 0,5W
R126	4822 116 52283	4k7 5% 0,5W
R127	4822 116 52283	4k7 5% 0,5W
R128	4822 116 52233	10k 5% 0,5W
R129	4822 116 52233	10k 5% 0,5W
R130	4822 116 52256	2k2 5% 0,5W
R131	4822 116 52256	2k2 5% 0,5W
R132	4822 116 52283	4k7 5% 0,5W
R133	4822 116 52283	4k7 5% 0,5W
R135	4822 116 52233	10k ONLY/00S
R136	4822 116 52244	15k ONLY/00S
R137	4822 116 52234	100Ω 5% 0,5W
R150	4822 050 11002	1k 1% 0,4W
R151	4822 050 11002	1k 1% 0,4W
R152	4822 116 52269	3k3 5% 0,5W
R153	4822 116 52233	10k 5% 0,5W
R154	4822 050 11002	1k 1% 0,4W
R156	4822 050 11002	1k 1% 0,4W
R157	4822 116 52283	4k7 5% 0,5W
R158	4822 116 52284	47k 5% 0,5W
R159	4822 116 52284	47k 5% 0,5W
R160	4822 116 52284	47k 5% 0,5W
R161	4822 116 52284	47k 5% 0,5W
R162	4822 116 52284	47k 5% 0,5W
R163	4822 116 52269	3k3 5% 0,5W
R164	4822 116 52284	47k 5% 0,5W
R165	4822 116 52284	47k 5% 0,5W
R166	4822 052 10479	47Ω 5% 0,33W
R251	4822 116 52224	470Ω 5% 0,5W
R252	4822 116 52224	470Ω 5% 0,5W
R253	4822 116 52284	47k 5% 0,5W
R254	4822 116 52284	47k 5% 0,5W
R255	4822 116 52284	47k 5% 0,5W
R256	4822 116 52284	47k 5% 0,5W
R257	4822 116 52244	15k 5% 0,5W
R258	4822 116 52244	15k 5% 0,5W
R259	4822 116 52249	1k8 5% 0,5W
R260	4822 116 52249	1k8 5% 0,5W
R261	4822 116 52269	3k3 5% 0,5W
R262	4822 116 52269	3k3 5% 0,5W
R263	4822 100 11386	PRESET 1k
R264	4822 100 11386	PRESET 1k
R265	4822 116 52243	1k5 5% 0,5W
R266	4822 116 52243	1k5 5% 0,5W
R267	4822 116 81154	2Ω2 5% 0,5W
R268	4822 116 81154	2Ω2 5% 0,5W
R269	4822 116 81154	2Ω2 5% 0,5W
R270	4822 116 81154	2Ω2 5% 0,5W
R271	4822 116 82049	2 X R18 3W
R272	4822 116 82049	2 X R18 3W
R273	4822 116 52231	820Ω 5% 0,5W
R274	4822 116 52231	820Ω 5% 0,5W
R275	4822 116 52271	33k 5% 0,5W
R276	4822 116 52271	33k 5% 0,5W
R277	4822 116 52257	22k 5% 0,5W
R278	4822 116 52257	22k 5% 0,5W
R279	4822 116 52233	10k 5% 0,5W
R280	4822 117 10028	220Ω 5% 0.25W
R281	4822 117 10028	220Ω 5% 0.25W
R282	4822 053 11109	10Ω 5% 2W
R283	4822 053 11109	10Ω 5% 2W
R284	4822 116 52284	47k 5% 0,5W
R285	4822 116 52284	47k 5% 0,5W
R286	4822 116 52296	6k8 5% 0,5W
R287	4822 115 90166	10Ω 0,25W
R288	4822 115 90166	10Ω 0,25W
R289	4822 115 90166	10Ω 0,25W
R290	4822 115 90166	10Ω 0,25W
R291	4822 116 52284	47k 5% 0,5W
R292	4822 116 52245	150k 5% 0,5W
R293	4822 053 11681	680Ω 5% 2W
R294	4822 053 11681	680Ω 5% 2W
R295	4822 050 21501	150Ω 1% 0,6W
R296	4822 050 21501	150Ω 1% 0,6W
R297	4822 116 52271	33k 5% 0,5W
R298	4822 116 52175	100Ω 5% 0,5W
R300	4822 116 52175	100Ω 5% 0,5W
R318	4822 116 52233	10k 5% 0,5W
R319	4822 115 90166	10Ω 0,25W
R320	4822 050 24701	470Ω 1% 0,6W
R321	4822 116 52175	100Ω 5% 0,5W
R322	4822 116 52175	100Ω 5% 0,5W
R323	4822 053 11151	150Ω 5% 2W
R326	4822 116 60313	10Ω 0,5W
R327	4822 113 80322	2M2 0,5W
R328	4822 116 60313	10Ω 0,5W
R329	4822 116 52244	15k 5% 0,5W
R330	4822 116 52296	6k8 5% 0,5W
R331	4822 116 52284	47k 5% 0,5W
R332	4822 116 52284	47k 5% 0,5W
R333	4822 116 52176	10Ω 5% 0,5W
R334	4822 116 52233	10k 5% 0,5W
R340	4822 116 52233	10k 5% 0,5W
R341	4822 116 52233	10k 5% 0,5W

R342	4822 116 52233	10k 5% 0,5W
R351	4822 116 52271	33k 5% 0,5W
R352	4822 116 52271	33k 5% 0,5W
R359	4822 116 52233	10k 5% 0,5W
R360	4822 116 52233	10k 5% 0,5W
R361	4822 116 52234	100Ω 5% 0,5W
R362	4822 116 52234	100Ω 5% 0,5W
R363	4822 116 52233	10k 5% 0,5W
R364	4822 116 52233	10k 5% 0,5W
R365	4822 116 52269	3k3 5% 0,5W
R366	4822 116 52269	3k3 5% 0,5W
R367	4822 116 52233	10k 5% 0,5W
R368	4822 116 52234	100Ω 5% 0,5W
R369	4822 116 52233	10k 5% 0,5W
R370	4822 116 52233	10k 5% 0,5W
R371	4822 116 52233	10k 5% 0,5W
R372	4822 116 52234	100Ω 5% 0,5W
R373	4822 116 52269	3k3 5% 0,5W
R374	4822 116 52233	10k 5% 0,5W
R375	4822 116 52269	3k3 5% 0,5W
R376	4822 116 52234	100Ω 5% 0,5W
R377	4822 116 52244	15k 5% 0,5W
R378	4822 116 52244	15k 5% 0,5W
R379	4822 116 52271	33k 5% 0,5W
R380	4822 116 52271	33k 5% 0,5W
R381	4822 116 52234	100Ω 5% 0,5W
R382	4822 116 52257	22k 5% 0,5W
R383	4822 116 52257	22k 5% 0,5W
R384	4822 116 52257	22k 5% 0,5W
R385	4822 116 52257	22k 5% 0,5W
R386	4822 116 52244	15k 5% 0,5W
R387	4822 116 52296	6k8 5% 0,5W
R388	4822 116 52269	3k3 5% 0,5W
R389	4822 116 52269	3k3 5% 0,5W
R390	4822 116 52296	6k8 5% 0,5W
R391	4822 116 52243	1k5 5% 0,5W
R392	4822 116 52257	22k 5% 0,5W
R393	4822 116 52257	22k 5% 0,5W
R394	4822 116 52257	22k 5% 0,5W
R395	4822 116 52234	100Ω 5% 0,5W
R396	4822 116 52234	100Ω 5% 0,5W
R397	4822 116 52233	10k 5% 0,5W
R398	4822 116 52233	10k 5% 0,5W
R409	4822 116 52233	10k 5% 0,5W
R418	4822 116 52233	10k 5% 0,5W
R427	4822 116 52233	10k 5% 0,5W
R436	4822 116 52233	10k 5% 0,5W
R437	4822 116 52233	10k 5% 0,5W
R438	4822 116 52233	10k 5% 0,5W
R439	4822 116 52256	2k2 5% 0,5W
R440	4822 116 52233	10k 5% 0,5W
R441	4822 116 52233	10k 5% 0,5W
R442	4822 116 52233	10k 5% 0,5W
R443	4822 116 52233	10k 5% 0,5W
R444	4822 116 52233	10k 5% 0,5W
R445	4822 116 52233	10k 5% 0,5W
R446	4822 116 52233	10k 5% 0,5W
R447	4822 116 52234	100Ω 5% 0,5W
R448	4822 116 52224	470Ω 5% 0,5W
R449	4822 116 52233	10k 5% 0,5W
R450	4822 116 52233	10k 5% 0,5W
R451	4822 116 52233	10k 5% 0,5W
R452	4822 116 52233	10k 5% 0,5W
R453	4822 116 52233	10k 5% 0,5W
R455	4822 116 52284	47k 5% 0,5W
R456	4822 116 52284	47k 5% 0,5W
R457	4822 116 52284	47k 5% 0,5W
R458	4822 116 52284	47k 5% 0,5W
R459	4822 116 52251	18k 5% 0,5W
R460	4822 116 52284	47k 5% 0,5W
R461	4822 116 52284	47k 5% 0,5W
R462	4822 116 52284	47k 5% 0,5W
R463	4822 116 52284	47k 5% 0,5W
R465	4822 116 52251	18k 5% 0,5W
R466	4822 116 52211	150Ω 5% 0,5W
R467	4822 116 52206	120Ω 5% 0,5W
R468	4822 116 52211	150Ω 5% 0,5W
R469	4822 116 52234	100Ω 5% 0,5W
R470	4822 116 52175	100Ω 5% 0,5W
R501	4822 050 11002	1k 1% 0,4W
R502	4822 050 11002	1k 1% 0,4W
R503	4822 116 52238	12k 5%
R504	4822 116 52238	12k 5%
R505	4822 116 52215	220Ω 5% 0,5W
R506	4822 116 52215	220Ω 5% 0,5W
R507	4822 116 52283	4k7 5% 0,5W
R508	4822 116 52283	4k7 5% 0,5W
R509	4822 116 52224	470Ω 5% 0,5W
R510	4822 116 52224	470Ω 5% 0,5W
R511	4822 116 52276	3k9 5% 0,5W
R512	4822 116 52276	3k9 5% 0,5W
R513	4822 116 52228	680Ω 5% 0,5W
R514	4822 116 52228	680Ω 5% 0,5W
R515	4822 116 52256	2k2 5% 0,5W
R516	4822 116 52256	2k2 5% 0,5W
R517	4822 116 52215	220Ω 5% 0,5W
R518	4822 116 52215	220Ω 5% 0,5W
R519	4822 101 30797	POTM ROT 10k X 2
R520	4822 101 30797	POTM ROT 10k X 2
R521	4822 050 11002	1k 1% 0,4W
R522	4822 050 11002	1k 1% 0,4W
R532	4822 101 30798	POTM ROT 100k X 2
R533	4822 116 52271	33k 5% 0,5W
R534	4822 116 52271	33k 5% 0,5W
R535	4822 116 52228	680Ω 5% 0,5W
R536	4822 116 52228	680Ω 5% 0,5W
R537	4822 116 52271	33k 5% 0,5W
R538	4822 116 52271	33k 5% 0,5W

C709	5322 122 32334	220pF 10% 100V
C710	5322 122 32334	220pF 10% 100V
C751	4822 124 21683	1µF 50V
C752	4822 124 21683	1µF 50V
C753	4822 124 21844	4,7µF 50V
C754	4822 124 21844	4,7µF 50V
C755	4822 124 21683	1µF 50V
C756	4822 124 21683	1µF 50V
C757	4822 124 21844	4,7µF 50V
C758	4822 124 21844	4,7µF 50V
C759	4822 122 40306	47nF 50V
C901	4822 124 41284	10µF 50V
C902	5322 122 32311	470pF 10% 100V
C903	4822 124 41284	10µF 50V
C904	4822 124 41284	10µF 50V
C905	4822 124 41284	10µF 50V
C906	4822 124 41284	10µF 50V
C907	4822 124 41284	10µF 50V
C908	5322 122 32311	470pF 10% 100V
C909	5322 122 32311	470pF 10% 100V
C910	4822 124 41287	47µF 16V
C911	4822 124 41287	47µF 16V
C912	4822 122 31202	33pF 2% 500V
C913	4822 122 31202	33pF 2% 500V
C914	5322 121 42386	100nF 5% 63V
C915	5322 121 42386	100nF 5% 63V
C916	5322 121 42386	100nF 5% 63V
C917	5322 121 42386	100nF 5% 63V
C918	4822 124 41284	10µF 50V
C919	5322 122 32331	1nF 10% 100V
C920	4822 124 41287	47µF 16V
C921	4822 124 41509	33µF 20% 35V
C922	4822 126 11948	22pF 5% 50V
C923	4822 121 51304	10nF 10% 50V
C924	4822 121 51304	10nF 10% 50V
C928	4822 124 41402	10µF 20% 50V

DIODES

D101	4822 125 50416	SVC342-K
D102	4822 130 33305	1SS133T-77
D103	4822 130 33305	1SS133T-77
D251	4822 130 80837	HSS81TD
D252	4822 130 80837	HSS81TD
D253	4822 130 33305	1SS133T-77
D254	4822 130 33305	1SS133T-77
D295	4822 130 42848	PTH9M04BB222
D296	4822 130 43564	PTH9 S16V330Ω
D320	4822 130 33133	D5FB204002L20
D321	4822 130 31007	S4VB-20
D322	4822 130 80839	S5688G
D323	4822 130 80839	S5688G
D324	4822 130 81729	MTZJ33D
D325	4822 130 80839	S5688G
D326	4822 130 80839	S5688G
D401	4822 130 33305	1SS133T-77
D402	4822 130 33305	1SS133T-77
D403	4822 130 33305	1SS133T-77
D404	4822 130 82978	LTL-16kPE-P-071A RED
D405	4822 130 82978	LTL-16kPE-P-071A RED
D406	4822 130 82978	LTL-16kPE-P-071A RED
D407	4822 130 33305	1SS133T-77
D408	4822 130 33305	1SS133T-77
D409	4822 130 33305	1SS133T-77
D410	4822 130 33305	1SS133T-77
D411	4822 130 33305	1SS133T-77
D412	4822 130 33305	1SS133T-77
D413	4822 130 33305	1SS133T-77
D414	4822 130 33305	1SS133T-77
D415	4822 130 33305	1SS133T-77
D416	4822 130 33305	1SS133T-77
D501	4822 130 80318	MTZJ6.8C
D502	4822 130 80318	MTZJ6.8C
D590	4822 130 32362	MA165
D591	4822 130 32362	MA165
D625	4822 130 33305	1SS133T-77
D626	4822 130 80839	S5688G
D651	4822 130 82978	LTL-16kPE-P RD
D901	4822 130 33305	1SS133T-77
D902	4822 130 33305	1SS133T-77
D903	4822 130 80322	MTZJ16A
D904	4822 130 80322	MTZJ16A
D905	4822 130 33305	1SS133T-77
D906	4822 130 80318	MTZ6.8C

COILS

L101	4822 157 63084	MW ANT COIL 280µH
L102	4822 157 52716	COIL-MW OSC RD
L103	4822 157 53589	COIL CHOKE 39mH
L104	4822 148 81095	COIL-AM IFT BLK
L105	4822 157 63904	COIL DETECTION
L106	4822 157 70021	COIL MPX
L107	4822 157 70021	COIL MPX
L108	4822 157 71282	COIL ONLY/00S
L251	4822 280 70354	RELAY VB24MBU
L252	4822 157 70022	COIL-SPEAKER CHOKE
L253	4822 157 70022	COIL-SPEAKER CHOKE
L590	4822 148 80281	COIL 100uH
L901	4822 280 70354	RELAY VB24MBU

TRANSISTORS & IC's

Q101	4822 130 62294	2SC1809S(P)
Q102	4822 209 31001	LA1851N
Q103	4822 130 60588	DTC114ΩS
Q104	4822 130 62386	JC557B
Q105	4822 209 83631	NJM4558D-D
Q106	4822 130 60766	DTA114ΩS
Q109	4822 126 90002	ZPA21BB251B1UA
Q150	4822 209 30178	LC7218
Q151	4822 130 42121	2SK30A
Q152	4822 130 40959	JC547B
Q251	4822 209 31613	UPC1342V
Q252	4822 209 31613	UPC1342V
Q253	4822 130 60117	2SC3419Y
Q254	4822 130 60117	2SC3419Y
Q255	4822 130 63121	2SC3281(O)
Q256	4822 130 63121	2SC3281(O)
Q257	4822 130 63119	2SA1302(O)
Q258	4822 130 63119	2SA1302(O)
Q259	4822 130 41312	2SC2240BL
Q260	4822 130 41312	2SC2240BL
Q261	4822 130 42951	2SA970GR
Q262	4822 209 83312	TA7317P
Q290	4822 130 60766	DTA114ΩS
Q291	4822 130 40959	JC547B
Q293	4822 130 40959	JC547B
Q320	4822 209 70385	L78MR05
Q321	4822 209 83317	NJM7815FA
Q322	4822 209 31864	NJM7915FA
Q323	4822 209 31631	NJM7805FA
Q351	4822 209 73064	NJM2068D
Q352	4822 209 83631	NJM4558D-D
Q353	4822 209 83631	NJM4558D-D
Q354	4822 209 83631	NJM4558D-D
Q355	4822 209 83631	NJM4558D-D
Q356	4822 209 72748	LC7821
Q401	4822 209 32627	TMP47C1670AN-H056
Q402	4822 130 62386	JC557B
Q403	4822 130 40959	JC547B
Q404	4822 130 62386	JC557B
Q405	4822 130 40959	JC547B
Q406	4822 214 52009	RCR GP1U58XP
Q407	4822 130 60766	DTA114ΩS
Q408	4822 130 60766	DTA114ΩS
Q409	4822 130 60766	DTA114ΩS
Q501	4822 209 70044	NJM2058D
Q502	4822 209 70044	NJM2058D
Q503	4822 130 61723	DTC323TS
Q504	4822 130 61723	DTC323TS
Q505	4822 130 61723	DTC323TS
Q506	4822 130 61723	DTC323TS
Q507	4822 209 73064	NJM2068D-D
Q508	4822 209 71783	LC7522
Q551	4822 209 72748	LC7821
Q552	4822 209 73731	LC7823
Q570	4822 209 73731	LC7823
Q571	4822 130 40959	JC547B
Q572	4822 130 40959	JC547B
Q590	4822 209 72323	TC74HCU04P
Q591	4822 209 30116	TC74HC02AP
Q592	4822 130 60588	DTC114ΩS
Q601	4822 209 83631	NJM4558D-D
Q625	4822 209 32693	NJM2177L
Q626	4822 209 31573	M50198P
Q627	4822 209 31574	UPD6345C
Q628	4822 130 60766	DTA114ΩS
Q629	4822 130 60766	DTA114ΩS
Q630	4822 209 73287	LB1630
Q701	4822 209 73064	NJM2068DD
Q751	4822 209 31575	T9213P
Q752	4822 209 83631	NJM4558D-D
Q753	4822 130 61723	DTC323TS
Q754	4822 130 61723	DTC323TS
Q901	4822 209 83779	UPC1270H
Q902	4822 209 83779	UPC1270H
Q903	4822 130 63411	2SD1408
Q904	4822 130 63411	2SD1408
Q905	4822 130 63412	2SB1017
Q906	4822 130 63412	2SB1017
Q907	4822 130 42951	2SA970GR
Q908	4822 130 42949	2SA970
Q909	4822 130 60117	2SC3419Y
Q910	4822 130 60117	2SC3419Y
Q911	4822 209 73727	UPC1188H
Q912	4822 209 83631	NJM4558D-D
Q913	4822 130 41312	2SC2240BL
Q914	4822 130 61723	DTC323TS

RESISTORS

R101	4822 116 52233	10k 5% 0,5W
R102	4822 116 52234	100Ω 5% 0,5W
R103	4822 100 11351	PRESET 10k
R104	4822 116 52239	120k 5% 0,5W
R104	4822 116 52234	100k ONLY/00S
R105	4822 116 52175	100Ω 5% 0,5W
R106	4822 050 21501	150Ω 1% 0,6W
R107	4822 116 52256	2k2 5% 0,5W
R108	4822 116 52219	330Ω 5% 0,5W
R109	4822 116 52219	330Ω 5% 0,5W
R110	4822 116 52219	330Ω 5% 0,5W
R111	4822 116 52233	10k 5% 0,5W
R112	4822 050 21501	150Ω 1% 0,6W

R539	4822 116 52228	680Ω 5% 0,5W
R540	4822 116 52228	680Ω 5% 0,5W
R541	4822 116 52271	33k 5% 0,5W
R542	4822 116 52271	33k 5% 0,5W
R543	4822 116 52228	680Ω 5% 0,5W
R544	4822 116 52228	680Ω 5% 0,5W
R545	4822 116 52224	470Ω 5% 0,5W
R546	4822 116 52224	470Ω 5% 0,5W
R547	4822 116 52233	10k 5% 0,5W
R548	4822 116 52233	10k 5% 0,5W
R549	4822 116 52175	100Ω 5% 0,5W
R550	4822 116 52175	100Ω 5% 0,5W
R551	4822 116 52258	220k 5% 0,5W
R552	4822 116 52258	220k 5% 0,5W
R553	4822 116 52258	220k 5% 0,5W
R554	4822 116 52258	220k 5% 0,5W
R555	4822 116 52258	220k 5% 0,5W
R556	4822 116 52258	220k 5% 0,5W
R557	4822 116 52258	220k 5% 0,5W
R558	4822 116 52258	220k 5% 0,5W
R559	4822 116 52258	220k 5% 0,5W
R560	4822 116 52258	220k 5% 0,5W
R561	4822 116 52258	220k 5% 0,5W
R562	4822 116 52258	220k 5% 0,5W
R563	4822 116 52258	220k 5% 0,5W
R564	4822 116 52258	220k 5% 0,5W
R565	4822 116 52234	100Ω 5% 0,5W
R566	4822 116 52175	100Ω 5% 0,5W
R567	4822 116 52175	100Ω 5% 0,5W
R568	4822 116 52234	100Ω 5% 0,5W
R569	4822 116 52284	47k 5% 0,5W
R570	4822 116 52284	47k 5% 0,5W
R571	4822 116 52195	47Ω 5% 0,5W
R572	4822 116 52284	47k 5% 0,5W
R573	4822 116 52195	47Ω 5% 0,5W
R574	4822 116 52284	47k 5% 0,5W
R575	4822 116 52195	47Ω 5% 0,5W
R576	4822 116 52233	10k 5% 0,5W
R577	4822 116 52244	15k 5% 0,5W
R578	4822 116 52224	470Ω 5% 0,5W
R579	4822 116 52199	68Ω 5% 0,5W
R580	4822 050 11002	1k 1% 0,4W
R581	4822 116 52233	10k 5% 0,5W
R582	4822 116 52244	15k 5% 0,5W
R583	4822 116 52224	470Ω 5% 0,5W
R584	4822 116 52199	68Ω 5% 0,5W
R585	4822 050 11002	1k 1% 0,4W
R586	4822 116 52234	100Ω 5% 0,5W
R587	4822 116 52226	560Ω 5% 0,5W
R588	4822 116 52231	820Ω 5% 0,5W
R590	4822 116 52202	82Ω 5% 0,5W
R591	4822 116 52175	100Ω 5% 0,5W
R592	4822 116 52202	82Ω 5% 0,5W
R593	4822 116 52175	100Ω 5% 0,5W
R594	4822 116 83863	1k 5% 0,5W
R595	4822 116 52269	3k3 5% 0,5W
R596	4822 116 83863	1k 5% 0,5W
R597	4822 116 52269	3k3 5% 0,5W
R598	4822 116 52233	10k 5% 0,5W
R599	4822 116 52233	10k 5% 0,5W
R601	4822 116 52234	100Ω 5% 0,5W
R602	4822 116 52234	100Ω 5% 0,5W
R603	4822 050 11002	1k 1% 0,4W
R603	4822 116 52256	2k2 ONLY/00S
R604	4822 050 11002	1k 1% 0,4W
R604	4822 116 52256	2k2 ONLY/00S
R605	4822 116 52224	470Ω 5% 0,5W
R606	4822 116 52224	470Ω 5% 0,5W
R607	4822 116 52234	100Ω 5% 0,5W
R608	4822 116 52234	100Ω 5% 0,5W
R609	4822 116 52272	330k 5% 0,5W
R610	4822 116 52272	330k 5% 0,5W
R611	4822 116 52257	22k 5% 0,5W
R612	4822 116 52257	22k 5% 0,5W
R613	4822 116 52215	220Ω 5% 0,5W
R614	4822 116 52215	220Ω 5% 0,5W
R615	4822 116 52284	47k 5% 0,5W
R616	4822 116 52284	47k 5% 0,5W
R617	4822 050 21001	100Ω 1% 0,6W
R618	4822 050 21001	100Ω 1% 0,6W
R619	4822 116 52175	100Ω 5% 0,5W
R620	4822 116 52175	100Ω 5% 0,5W
R621	4822 116 52258	220k 5% 0,5W
R622	4822 116 52258	220k 5% 0,5W
R625	4822 116 52257	22k 5% 0,5W
R626	4822 116 52257	22k 5% 0,5W
R627	4822 116 52244	15k 5% 0,5W
R628	4822 116 52284	47k 5% 0,5W
R629	4822 116 52244	15k 5% 0,5W
R630	4822 116 52244	15k 5% 0,5W
R631	4822 116 52284	47k 5% 0,5W
R632	4822 116 52244	15k 5% 0,5W
R633	4822 050 21006	10M 1% 0,6W
R634	4822 116 52234	100Ω 5% 0,5W
R635	4822 116 52234	100Ω 5% 0,5W
R636	4822 116 52244	15k 5% 0,5W
R637	4822 116 52244	15k 5% 0,5W
R639	4822 116 52296	6k8 5% 0,5W
R640	4822 116 52303	8k2 5% 0,5W
R641	4822 116 52233	10k 5% 0,5W
R642	4822 116 52289	5k6 5% 0,5W
R643	4822 116 52272	330k 5% 0,5W
R644	4822 116 52289	5k6 5% 0,5W
R645	4822 116 52284	47k 5% 0,5W
R646	4822 116 52234	100Ω 5% 0,5W
R647	4822 116 52289	5k6 5% 0,5W
R648	4822 116 52244	15k 5% 0,5W
R649	4822 116 52235	1M 5% 0,5W

R650	4822 116 52234	100Ω 5% 0,5W
R651	4822 116 52303	8k2 5% 0,5W
R652	4822 116 52303	8k2 5% 0,5W
R653	4822 116 52303	8k2 5% 0,5W
R654	4822 116 52303	8k2 5% 0,5W
R655	4822 116 52233	10k 5% 0,5W
R656	4822 116 52233	10k 5% 0,5W
R657	4822 116 52233	10k 5% 0,5W
R658	4822 116 52233	10k 5% 0,5W
R659	4822 116 52233	10k 5% 0,5W
R660	4822 116 52233	10k 5% 0,5W
R662	4822 101 30799	POTM ROT 100k X 4
R663	4822 116 52211	150Ω 5% 0,5W
R664	4822 050 11002	1k 1% 0,4W
R665	4822 050 11002	1k 1% 0,4W
R666	4822 116 52233	10k 5% 0,5W
R667	4822 050 21001	100Ω 1% 0,6W
R668	4822 050 11002	1k 1% 0,4W
R669	4822 116 52234	100Ω 5% 0,5W
R670	4822 116 52234	100Ω 5% 0,5W
R671	4822 116 52176	10Ω 5% 0,5W
R673	4822 116 52269	3k3 5% 0,5W
R674	4822 116 52269	3k3 5% 0,5W
R701	4822 116 52233	10k 5%
R702	4822 116 52233	10k 5%
R703	4822 116 52238	12k 5%
R704	4822 116 52238	12k 5%
R705	4822 116 52207	1k2 5% 0,5W
R706	4822 116 52207	1k2 5% 0,5W
R707	4822 116 52233	10k 5% 0,5W
R708	4822 116 52233	10k 5% 0,5W
R709	4822 116 52233	10k 5% 0,5W
R710	4822 116 52233	10k 5% 0,5W
R711	4822 116 52296	6k8 5% 0,5W
R712	4822 116 52296	6k8 5% 0,5W
R713	4822 116 52233	10k 5% 0,5W
R714	4822 116 52233	10k 5% 0,5W
R715	4822 116 52235	1M 5% 0,5W
R716	4822 116 52235	1M 5% 0,5W
R717	4822 116 52258	220k 5% 0,5W
R718	4822 116 52258	220k 5% 0,5W
R721	4822 116 52235	1M 5% 0,5W
R722	4822 116 52235	1M 5% 0,5W
R723	4822 116 52235	1M 5% 0,5W
R724	4822 116 52235	1M 5% 0,5W
R725	4822 116 52235	1M 5% 0,5W
R726	4822 116 52235	1M 5% 0,5W
R727	4822 116 83863	1k 5% 0,5W
R728	4822 116 83863	1k 5% 0,5W
R751	4822 116 52258	220k 5% 0,5W
R752	4822 116 52258	220k 5% 0,5W
R753	4822 116 52258	220k 5% 0,5W
R754	4822 116 52258	220k 5% 0,5W
R756	4822 116 52258	220k 5% 0,5W
R757	4822 116 52269	3k3 5% 0,5W
R758	4822 116 52233	10k 5% 0,5W
R759	4822 116 52269	3k3 5% 0,5W
R760	4822 116 52233	10k 5% 0,5W
R761	4822 116 52283	4k7 5% 0,5W
R762	4822 116 52283	4k7 5% 0,5W
R763	4822 116 52234	100Ω 5% 0,5W
R764	4822 116 52256	2k2 5% 0,5W
R765	4822 116 52283	4k7 5% 0,5W
R901	4822 050 11002	1k 1% 0,4W
R902	4822 116 52283	4k7 5% 0,5W
R903	4822 116 52283	4k7 5% 0,5W
R904	4822 116 52283	4k7 5% 0,5W
R905	4822 116 52234	100Ω 5% 0,5W
R906	4822 116 52228	680Ω 5% 0,5W
R907	4822 116 52228	680Ω 5% 0,5W
R908	4822 116 52296	6k8 5% 0,5W
R909	4822 116 52296	6k8 5% 0,5W
R910	4822 116 52271	33k 5% 0,5W
R911	4822 116 52271	33k 5% 0,5W
R912	4822 116 52226	560Ω 5% 0,5W
R913	4822 116 52226	560Ω 5% 0,5W
R914	4822 116 52271	33k 5% 0,5W
R915	4822 116 52271	33k 5% 0,5W
R916	4822 116 52269	3k3 5% 0,5W
R917	4822 116 52269	3k3 5% 0,5W
R918	4822 116 52256	2k2 5% 0,5W
R919	4822 116 52256	2k2 5% 0,5W
R920	4822 116 81753	4Ω7 5% 0,5W
R921	4822 116 81753	4Ω7 5% 0,5W
R922	4822 116 81753	4Ω7 5% 0,5W
R923	4822 116 81753	4Ω7 5% 0,5W
R924	4822 116 82049	2 X R18 3W
R925	4822 116 82049	2 X R18 3W
R926	4822 116 52284	47k 5% 0,5W
R927	4822 116 52284	47k 5% 0,5W
R928	4822 111 31012	10Ω 5% 0,25W
R929	4822 111 31012	10Ω 5% 0,25W
R930	4822 116 52226	560Ω 5% 0,5W
R931	4822 116 52271	33k 5% 0,5W
R932	4822 116 52284	47k 5% 0,5W
R933	4822 116 52233	10k 5% 0,5W
R934	4822 116 52284	47k 5% 0,5W
R935	4822 116 52257	22k 5% 0,5W
R936	4822 116 52271	33k 5% 0,5W
R937	4822 116 52243	1k5 5% 0,5W
R938	4822 116 52297	68k 5% 0,5W
R939	4822 116 52234	100Ω 5% 0,5W
R940	4822 116 52284	47k 5% 0,5W
R941	4822 052 10109	10Ω 5% 0,33W
R943	4822 116 52228	680Ω 5% 0,5W
R944	4822 116 52271	33k 5% 0,5W
R945	4822 116 52257	22k 5% 0,5W
R946	4822 116 52284	47k 5% 0,5W

R947	4822 050 11002	1k 1% 0,4W
R948	4822 050 11002	1k 1% 0,4W
R949	4822 116 83863	1k 5% 0,5W

SWITCHES

S310	4822 276 13289	SWITCH-PUSH
S320	4822 276 13285	SW PUSH 1P 5/80A
S321	4822 276 13539	SWITCH ONLY/00S
S401	4822 276 13288	TACT SWITCH
S402	4822 276 13288	TACT SWITCH
S403	4822 276 13288	TACT SWITCH
S404	4822 276 13288	TACT SWITCH
S405	4822 276 13288	TACT SWITCH
S406	4822 276 13288	TACT SWITCH
S407	4822 276 13288	TACT SWITCH
S408	4822 276 13288	TACT SWITCH
S409	4822 276 13288	TACT SWITCH
S410	4822 276 13288	TACT SWITCH
S411	4822 276 13288	TACT SWITCH
S412	4822 276 13288	TACT SWITCH
S413	4822 276 13288	TACT SWITCH
S414	4822 276 13288	TACT SWITCH
S415	4822 276 13288	TACT SWITCH
S416	4822 276 13288	TACT SWITCH
S417	4822 276 13288	TACT SWITCH
S418	4822 276 13213	TACT SWITCH
S419	4822 276 13213	TACT SWITCH
S420	4822 276 13213	TACT SWITCH
S421	4822 276 13213	TACT SWITCH
S422	4822 276 13213	TACT SWITCH
S423	4822 276 13288	TACT SWITCH
S424	4822 276 13288	TACT SWITCH
S425	4822 276 13288	TACT SWITCH
S426	4822 276 13288	TACT SWITCH
S427	4822 276 13288	TACT SWITCH
S428	4822 276 13288	TACT SWITCH
S429	4822 276 13288	TACT SWITCH
S430	4822 276 13288	TACT SWITCH
S431	4822 276 13288	TACT SWITCH
S432	4822 276 13213	TACT SWITCH
S433	4822 276 13213	TACT SWITCH
S434	4822 276 13213	TACT SWITCH
S435	4822 276 13213	TACT SWITCH
S436	4822 276 13213	TACT SWITCH
S437	4822 273 10249	SOURCE SWITCH, ROT
S701	4822 273 10251	SWITCH-SLICE

RESONATORS

F101	4822 242 81262	CERAM TER 450kHZ
F102	4822 242 70911	CERAM TER 10.7MHz
F102	4822 242 70665	CST 10.7MHz ONLY/00S
F103	4822 242 70665	CERAM TER 10.7MHz
X101	4822 242 81248	RESONATOR 19kHZ
X150	4822 242 72333	X'TAL 7.2MHz
X401	4822 242 72066	RESONATOR 8.00MHz
X625	4822 242 81271	RESONATOR